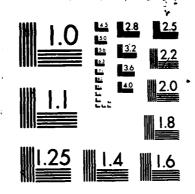
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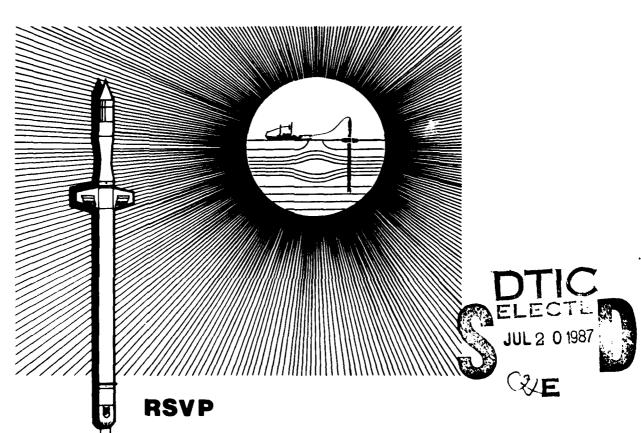
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OREGON STATE UNIVERSITY

COASTAL TRANSITION ZONE pilot-1987

Rapid-Sampling Vertical Profiler Observations

> by M. M. Park J. N. Moum D. R. Caldwell

Office of Naval Research N00014-87-K-0242 NR 083-102 College of Oceanography Oregon State University

> Reference 87 20 June 1987 Data Report 135

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Temperature, salinity, sigma-t and dissipation properties of Sampling Vertical Profiler for six transects as properties of Transition Zone pilot experiment, June 1987.	——————————————————————————————————————
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COASTAL TRANSITION ZONE pilot - 1987

Rapid Sampling Vertical Profiler Observations

by

M.M. Park J.N. Moum

D.R. Caldwell

College of Oceanography Oregon State University Corvallis, Oregon 97331

REPORT

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INTRODUCTION

The Coastal Transition Zone (CTZ) experiment was designed to investigate the characteristics of the transition region between coastal upwelling and open ocean off the west coast of North America. The special area of interest was off Northern California. A few previous studies (Kosro and Huyer, 1985; Flament et al, 1985; Reinecker and Mooers, 1977; Bernstein et al, 1977) have noted the strong offshore jets of anomalously cool surface water which are the focus of our study.

The goals of our small-scale surveys were to examine in detail the evolution of a single feature and to determine its reaction to various forcing conditions. The pilot project in 1987 was intended to be exploratory in nature. It consisted of a 10-day cruise (27 May to 07 June, 1987; San Francisco to San Francisco) for which our measurement suite included:

- 1) surface temperature, conductivity and fluorescence measurements;
- 2) high-quality meteorological measurements;
- 3) towed thermistor chain;
- 4) hull-mounted acoustic Doppler current profiler (ADCP);
- 5) Rapid Sampling Vertical Profiler (RSVP).

Based on measurements made by Mike Kosro (OSU) and Jane Huyer (OSU) on the leg immediately preceding our own, we proceeded to examine a strong feature off Cape Mendocino, performing 3 North-South transects following the Huyer/Kosro outer line (see Huyer/Kosro data report). Transects 1 (108 RSVP microstructure casts) and 2 (112 casts) were made at 6 knots with the thermistor chain in tow. The thermistor chain was seriously damaged upon completion of Transect 2. Subsequent transects were made at slower speeds (3-4 knots) resulting in tighter profile spacing (approximately 1 km) and deeper profiles (200+ m). Transect 3 (215 casts) followed 126°10'W all the way from 39°20'N to 41°N, deviating from the Huyer/Kosro outer line at the south end.

We were fortunate to receive high quality facsimiles of satellite infrared images while aboard ship. Based on these images we decided that the feature off Mendocino was breaking up and that the most interesting and coherent feature within the study region was located off Point Arena. Following Transect 3 we proceeded to 39°40'N, 125°W and began a sequence of 3 North-South transects of RSVP/ADCP profiles between 39°40'N and 38°N. Transect 4 (177 casts) was made in light winds (6-10 knots), Transect 5 (202 casts) in increasing winds (4-20 knots) and Transect 6 (101 casts) in high winds (20-30 knots). During each transect we crossed a feature which we can characterize in a preliminary manner as cool, dense and flowing offshore.

INSTRUMENTATION

The RSVP is described by Caldwell et al (1985). Sensors mounted on the nose for the CTZ pilot experiment include a fast-response thermistor (Thermometrics), Neil Brown conductivity cell, pressure sensor and two orthogonally-mounted airfoil (shear) probes from which we have made estimates of turbulent kinetic energy dissipation rates (following Osborn and Crawford, 1980). During the thermistor chain tows, we mounted 2 Seabird conductivity sensors on the chain at 123 m depth. We used these plus thermistors positioned 1 m higher on the chain to compare profiler measurements of temperature and conductivity so that we might detect possible sensor drifts. None were found during the chain tows and agreement was good. CTD profiles were made at the beginning and end of each transect to compare to our conductivity and temperature measurements.

DATA REDUCTION

The primary data acquisition computer sampled six signals from the RSVP; pressure, temperature, temperature derivative, conductivity and two airfoil (shear) probes. The signals were sampled at 60 Hz except the shear sensors which were sampled at 240 Hz. Raw data were stored on magnetic tape and simultaneously sent across a high speed parallel interface to a second computer for further analysis. Plots of individual profiles presented in this report were produced at the time of each RSVP cast. Some adjustments were made to the data after comparison to CTD profiles made at the ends of each transect. Deglitching of spiky data was done on board ship.

Temperature and conductivity raw data were averaged over 128 points (approximately 2 meters at our fall speed of 110 cm/s) for the plot profiles. Salinity and σ_t were computed using the UNESCO 1978 algorithms from the 128-point averages of temperature and conductivity. A comparison of RSVP-computed salinity to a CTD cast at the beginning of transect 1 suggested that the RSVP was within 0.1 ppt. Unfortunately this CTD cast was done in an area of rapidly changing water masses and was considered unsatisfactory for a more precise comparison correction. During transects 1 and 2, further comparisons to Seabird conductivity sensors mounted on the towed thermistor chain at 123 meters and Chain temperature 1 meter above indicated that the RSVP profiles were within 0.1 ppt. RSVP surface values for transects 1 and 2 were compared to a sea chest thermosalinograph system using Seabird temperature and conductivity sensors. In addition, a hull-mounted ADCP (RD instruments) provided surface temperature for further comparison. RSVP surface salinity was consistently high by 0.08 ppt during transects 1 and 2.

CTD comparisons for transects 4 and 5 indicated our instrument had drifted (0.4 ppt at 200 meters) and adjustments were made to bring salinity to within 0.1 ppt at cast 153/36. A change of RSVP profilers at cast 154/16 and additional CTD casts for the remainder of transect 5 and 6 showed RSVP salinity to be within 0.01 ppt.

RSVP temperature and conductivity values averaged over 20 cm were sent to the second, real time processing computer, where calibrations were applied, deglitching performed and these profiles were stored for further analysis. Temperature and $\sigma_{\rm t}$ were further averaged over 1 meter and selected at 3, 20 and subsequent 20 meter depth intervals and plotted. These plots have calibration corrections applied from the CTD, towed thermistor chain and thermosalinograph data available during the cruise, unlike the real-time RSVP profiles.

The processing of the outputs from the two shear probes follows the procedure described by Park et al (1985). The turbulent dissipations computed from these data and plotted as profiles here have not been deglitched. Occasional plankton spikes, line glitches and other contaminants are sometimes apparent in the profiles. These were subsequently detected and removed before averaging to produce the summary plots shown.

THE DATA PLOTS

The RSVP profiles plotted are approximately 85% complete with omissions due to failure of the high speed parallel processing system. The entire data set is included with casts roughly every 8 minutes. As noted in the previous section, caution must be used when attempting to obtain absolute values of hydrographic data from the profiles.

Each real-time plot of an RSVP cast contains labeled solid line traces for temperature and $\sigma_{\rm t},$ a dotted line for salinity and a solid trace for dissipation. Vertical and horizontal scales were adjusted to compensate for calibration errors and shifts, and real dynamic changes in instrument signals. The profiler sampled at depths between 150-250 meters. The ship speed determines the amount of line available for free fall and hence, the maximum depth of the profile.

The plots in this report are organized into six transects separated by the colored sheets. Individual profile plots from each transect are preceded by three summary plots. The first plot contains four parameters (wind speed, solar radiation, 100 meter averages of dissipation centered at 60 meters and when available 100m averages of dissipation centered at 160 meters). The dissipation for transect 6 is not yet available. The second and third plots are 1 meter averages of temperature and $\sigma_{\rm t}$

selected from each profile at 3, 20, 40, 60, 80, 100, 120, 140, 160, 180 and 200 meter depth bins (again depending on the profilers' maximum depth). Temperature and conductivity were corrected and salinity and $\sigma_{\rm t}$ recomputed to reflect the CTD comparison information available during the cruise.

List of References

Bernstein, R.L., L. Breaker and R. Whritner, 1977: California current eddy formation: ship, air and satellite results. Science, 195, 353-359.

Caldwell, D.R., T.M. Dillon and J.N. Moum, 1985: The Rapid Sampling Vertical Profiler: an evaluation. J. Ocean. Atmos. Tech., 2, 615-625.

Flament, P., L. Armi and L. Washburn, 1985: The evolving structure of an upwelling filament. J. Geophys. Res., $\underline{90}$, 11,765-11,778.

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5

Kosro, P.M. and A. Huyer, 1986: CTD and velocity surveys of seaward jets off northern California. J. Geophys. Res., 91, 7680-7690.

Osborn, T.R. and W.R. Crawford, 1980: An airfoil probe for measuring turbulent velocity fluctuations in water. in <u>Air-Sea Interactions</u>, pp 369-386, Dobson, Hasse and Davis, eds., Plenum Press, 801 pp.

Park, M.M., J.N. Moum, D.R. Caldwell, P.J. Stabeno, J. Cantey, and S.D. Wilcox, 1985: TROPIC HEAT 1984 Rapid Sampling Vertical Profiler Observations. Oregon State University College of Oceanography Reference 85-21.

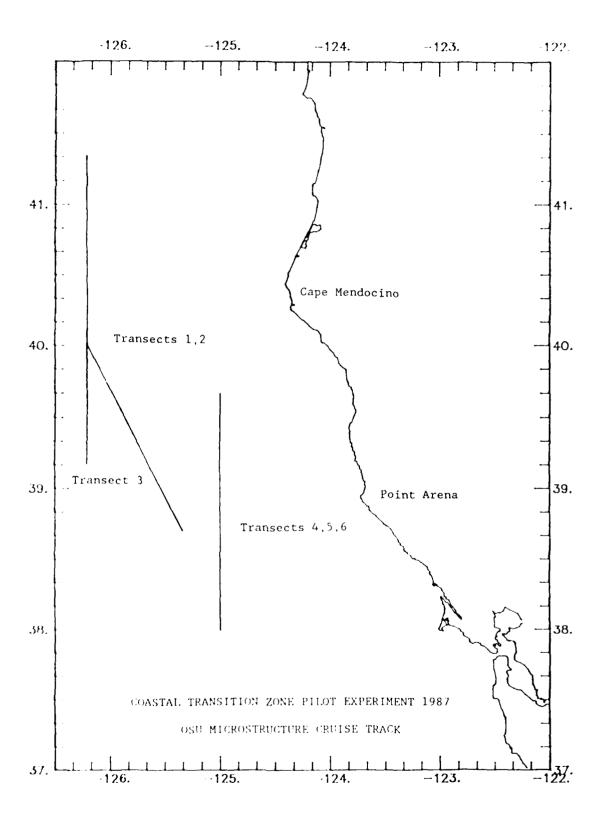
Reinecker, M.M. and C.N.K. Mooers, 1985: A cool anomaly off northern California: an investigation using IR imagery and in situ data. J. Geophys. Res., <u>90</u>, 4807,4818.

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Transect Summary

Transect	Start Lati	End tude	Longitude	Start 7	End [ape/Batc	# Casts h
1	38°44.2′N	41°26.4'N	126°10′W	140/01	143/36	108
2	41°27.0'N	39°42.0′N		143/37	145/22	112
3	39°19.2′N	40°59.5′N		145/41	149/45	215
4	39°39.2′N	37°59.3′N	125°00′W	149/46	153/19	177
5	37°58.5'N	39°40.0′N		153/21	157/09	202
6	39°40.0'N	38°00.0'N		157/10	160/36	191
						1005

TOTAL CASTS ---> 1005



TAPE.FILE	TIME	LATITUDE	LONGITUDE
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140.006,	150.72893,	38.7782,	125.4244
140.007,	150.73392,	38.7835,	125.4307
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140.009,	150.76366,	38.8146,	125.4681
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140.012,	150.78534,	38.8449,	125.4938
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141.002,	151.09216,	39.5629,	125.8230
141.003,	151.09735,	39.5744,	125.8295
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141.004,	151.10249,	39.5859,	125.8359
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142.017, 151.51389, 40.4450, 126.1714 142.018, 151.52225, 40.4616, 126.1722 142.020, 151.54445, 40.5057, 126.1745 142.021, 151.54926, 40.5152, 126.1750 142.022, 151.55614, 40.5289, 126.1757 142.023, 151.56284, 40.5422, 126.1763 142.024, 151.56906, 40.5545, 126.1770 142.025, 151.57495, 40.5662, 126.1776 142.026, 151.58078, 40.5777, 126.1782 142.027, 151.58661, 40.5893, 126.1788 142.028, 151.59178, 40.5996, 126.1794 142.029, 151.59698, 40.6099, 126.1799 142.031, 151.60220, 40.6203, 126.1810 142.032, 151.61287, 40.6414, 126.1815 142.033, 151.61818, 40.6520, 126.1821	
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142.020, 151.54445, 40.5057, 126.1745 142.021, 151.54926, 40.5152, 126.1750 142.022, 151.55614, 40.5289, 126.1757 142.023, 151.56284, 40.5422, 126.1763 142.024, 151.56906, 40.5545, 126.1770 142.025, 151.57495, 40.5662, 126.1776 142.026, 151.58078, 40.5777, 126.1782 142.027, 151.58661, 40.5893, 126.1788 142.028, 151.59178, 40.5996, 126.1794 142.029, 151.59698, 40.6099, 126.1799 142.030, 151.60220, 40.6203, 126.1804 142.031, 151.60756, 40.6309, 126.1810 142.032, 151.61287, 40.6414, 126.1815 142.033, 151.61818, 40.6520, 126.1821	
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142.024, 151.56906, 40.5545, 126.1770 142.025, 151.57495, 40.5662, 126.1776 142.026, 151.58078, 40.5777, 126.1782 142.027, 151.58661, 40.5893, 126.1788 142.028, 151.59178, 40.5996, 126.1794 142.029, 151.59698, 40.6099, 126.1799 142.030, 151.60220, 40.6203, 126.1804 142.031, 151.60756, 40.6309, 126.1810 142.032, 151.61287, 40.6414, 126.1815 142.033, 151.61818, 40.6520, 126.1821	
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142.033, 151.61818, 40.6520, 126.1821	
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142.034, 151.62364, 40.6628, 126.1827	
142.035, 151.62885, 40.6732, 126.1832	
142.036, 151.63400, 40.6835, 126.1836	
142.038, 151.64113, 40.6977, 126.1843	
142.039, 151.64824, 40.7122, 126.1847	
142.040, 151.65352, 40.7234, 126.1847	
142.041, 151.65875, 40.7345, 126.1847	
142.042, 151.66393, 40.7455, 126.1847	
142.043, 151.66908, 40.7565, 126.1847	
142.044, 151.67422, 40.7675, 126.1846	
142.045, 151.67958, 40.7789, 126.1845	
142.046, 151.68488, 40.7903, 126.1844	
142.047, 151.68997, 40.8014, 126.1842	
142.048, 151.69995, 40.8236, 126.1836	
142.049, 151.70609, 40.8372, 126.1832	
142.052, 151.72891, 40.8879, 126.1818	
142.053, 151.73795, 40.9080, 126.1813	
142.056, 151.75795, 40.9525, 126.1800	
142.057, 151.76384, 40.9656, 126.1796	
142.059, 151.77806, 40.9982, 126.1783	
143.001, 151.78737, 41.0203, 126.1773	
143.002, 151.79292, 41.0337, 126.1766	
143.003, 151.79831, 41.0472, 126.1757	
143.004, 151.80391, 41.0613, 126.1748	
143.006, 151.81271, 41.0835, 126.1734	
143.007, 151.81802, 41.0970, 126.1725	

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TAPE, F1	LE TIME	LATITUDE	LONGITUDE
143.010	, 151.82771,	41.1214,	126.1709
143.011		41.1348,	126.1701
143.012	•	41.1482,	126.1692
143.013		41.1612,	126.1683
143.014		41.1744,	126.1675
143.015	•	41.1878,	126.1666
143.016	•	41.2012,	126.1658
143.017	•	41.2143,	126.1649
143.018	•	41.2332,	126.1637
143.019	•	41.2477,	126.1628
143.020	•	41.2612,	126.1622
143.021	•	41.2749,	126.1615
143.022	·	41.2886,	126.1608
143.023	•	41.3029,	126.1601
143.024		41.3165,	126.1594
143.025		41.3298,	126.1587
143.026		41.3449,	126.1579
143.027	151.92110,	41.3554,	126.1577
143.028		41.3646,	
143.029		41.3736,	126.1576 126.1574
143.030	•	41.3826,	
143.031,		41.3910,	126.1573 126.1573
143.032		41.3910,	126.1573
143.032	•	41.4100,	126.1573
143.034,	•		
143.034,	•	41.4195,	126.1572
143.036		41.4293,	126.1572
143.030,	•	41.4393,	126.1571
143.037,		41.4491,	126.1571
143.039,		41.4489,	126,1570
143.040	·	41.4480,	126.1568
143.041,	•	41.4473,	126.1567
143.041,	,	41.4383,	126,1566
143.042,		41.4180,	126.1563
143.043,		41.4044,	126.1561
143.044,	152.02127, 152.02698,	41.3890,	126.1559
143.045,		41.3734,	126.1557
143.040,		41.3573,	126.1554
143.048,		41.3352,	126.1551
143.048,		41.3200,	126.1549
143.049,	,	41.2951,	126.1546
143.050,	•	41.2801,	126.1544
	•	41.2674,	126.1546
143.052,	•	41.2545,	126.1548
143.053,		41.2417,	126.1551
143.054,	•	41.2286,	126.1553
143.055,		41.2157,	126.1555
143.056,		41.2024,	126.1558
143.057,	152.09734,	41.1889,	126.1560
143.058,	152.10245,	41.1760,	126.1562
143.059,	152.10748,	41.1632,	126.1565
143.060,	152.11267,	41.1501,	126.1567
143.061,	152.11789,	41.1370,	126.1570

TAPE.FILE TIME	LATITUDE	LONGITUDE
143.062, 152.12305,	41.1239,	126.1572
143.063, 152.12833,	41.1106,	126.1575
143.064, 152.13814,	41.0858,	126.1579
143.065, 152.14317,	41.0731,	126.1582
143.066, 152.14832,	41.0601,	126.1583
144.001, 152.15657,	41.0391,	126.1581
144.002, 152.16168,	41.0261,	126.1580
144.003, 152.16679,	41.0131,	126.1579
144.005, 152.17407,	40.9944,	126.1572
144.006, 152.17920,	40.9813,	126.1566
144.007, 152.18430,	40.9682,	126.1561
144.008, 152.18930,	40.9554,	126.1556
144.009, 152.19452,	40.9420,	126.1551
144.010, 152.20381,	40.9181,	126.1542
144.011, 152.21112,	40.8990,	126.1535
144.012, 152.21989,	40.8753,	126.1524
144.013, 152.23250,	40.8415,	126.1512
144.014, 152.23970,	40.8223,	126.1508
144.015, 152.24844,	40.7991,	126.1505
144.016, 152.25883,	40.7718,	126.1532
144.018, 152.30490,	40.6497,	126.1671
144.019, 152.31218,	40.6298,	126.1689
144.020, 152.31729,	40.6149,	126.1695
144.021, 152.32234,	40.6002,	126.1701
144.025, 152.37906,	40.4350,	126.1768
144.026, 152.39873,	40.3774,	126.1786
144.027, 152.40387,	40.3618,	126.1783
144.028, 152.40903,	40.3463,	126.1780
144.029, 152.41423,	40.3306,	126.1777
144.030, 152.42052,	40.3115,	126.1771
144.031, 152.42569,	40.2957,	126.1765
144.032, 152.43054,	40.2809,	126.1760
144.033, 152.43535,	40.2663,	126.1755
144.034, 152.44011, 144.035, 152.44479,	40.2517, 40.2375,	126.1750 126.1745
	40.2208,	126.1743
	40.2062,	126.1734
144.037, 152.45505, 144.038, 152.45963,	40.1925,	126.1731
144.039, 152.46429,	40.1791,	126.1733
144.040, 152.46889,	40.1659,	126.1735
144.041, 152.47343,	40.1528,	126.1737
144.042, 152.47797,	40.1398,	126.1739
144.043, 152.48268,	40.1262,	126.1742
144.044, 152.48726,	40.1131,	126.1744
144.045, 152.49179,	40.1001,	126.1747
144.046, 152.49660,	40.0864,	126.1749
144.047, 152.50130,	40.0732,	126.1748
144.048, 152.50610,	40.0604,	126.1738
144.049, 152.51068,	40.0483,	126.1729
144.050, 152.51538,	40.0358,	126.1719
144.051, 152.52026,	40.0229,	126.1709
144.052, 152.52510,	40.0102,	126.1680

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TAPE.FIL	E TIME	LATITUDE	LONGITUDE
144.053,	152.53093,	39.9949,	126.1641
144.054,	152.53703,	39.9789,	126.1600
144.055,	152.54303,	39.9632,	126.1549
144.056,	152.54878,	39.9484,	126.1463
144.057,	152.55450,	39.9337,	126.1379
144.058,	152.55963,	39.9206,	126.1303
144.059,	152.56439,	39.9083,	126.1232
144.060,	152.56972,	39.8947,	126.1153
144.061,	152.57481,	39.8816,	126.1078
145.001,	152.58647,	39.8527,	126.0906
145.002,	152.59174,	39.8410,	126.0830
145.003,	152.59756,	39.8280,	126.0745
145.004,	152.60251,	39.8170,	126.0673
145.005,	152.60741,	39.8082,	126.0604
145.006,	152.61279,	39.7996,	126.0530
145.007,	152.61986,	39.7884,	126.0432
145.008,	152.63176,	39.7696,	126.0268
145.009,	152.63644,	39.7622,	126.0203
145.010,	152.64107,	39.7549,	126.0140
145.011,	152.64647,	39.7464,	126.0065
145.012,	152.65334,	39.7355,	125.9970
145.013,	152.65930,	39.7261,	125.9887
145.014,	152.66403,	39.7186,	125.9822
145.015, 145.016,	152.66890,	39.7109,	125.9754
145.018,	152.67383, 152.68076,	39.7031,	125.9686
145.017,	152.68553,	39.6921, 39.6845,	125.9591
145.010,	152.69012,	39.6773,	125.9525 125.9462
145.020,	152.69475,	39.6700,	125.9398
145.021,	152.69952,	39.6624,	125.9332
145.041,	153.02672,	39.3506,	126.1705
145.042,	153.03183,	39.3567,	126.1702
145.043,	153.03722,	39.3632,	126.1699
145.044,	153.04260,	39.3697,	126.1697
145.045,	153.04796,	39.3761,	126.1694
145.046,	153.05322,	39.3825,	126.1691
145.047,	153.05859,	39.3889,	126.1688
145.048,		39.3954,	126.1685
145.049,	153.06952,	39.4021,	126.1682
145.050,	153.07486,	39.4085,	126.1680
145.051,	153.08014,	39.4149,	126.1677
145.052,	153.08548,	39.4212,	126.1678
145.053,	153.09058,	39.4273,	126.1685
145.054,	153.11357,	39.4540,	126.1703
145.055,	153.11945,	39.4606,	126.1702
145.056,	153.12968,	39.4720,	126.1702
146.001,	153.14403,	39.4881,	126.1702
146.002,	153.15672,	39.5021,	126.1704
146.003,	153.16388,	39.5099,	126.1705
146.004,	153.17334,	39.5195,	126.1709
146.005,	153.17938,	39.5255,	126.1712
146.006,	153.18712,	39.5330,	126.1715

TAPE, FIL TIME	LATITUDE	LONGITUDE
146.007, 153.19368,	39.5390,	126.1719
146.009, 153.20816,	39.5522,	126.1728
146.010, 153.22093,	39.5638,	126.1735
146.011, 153.22652,	39.5689,	126.1739
146.012, 153.23601,	39.5773,	126.1743
146.013, 153.24178,	39.5824,	126.1746
146.014, 153.24898,	39.5887,	126.1750
146.016, 153.26060,	39.5989,	126.1755
146.017, 153.26759,	39.6050,	126.1758
146.018, 153.27794,	39.6140,	126.1763
146.019, 153.28372,	39.6191,	126.1766
146.020, 153.28912,	39.6239,	126.1769
146.021, 153.29478,	39.6289,	126.1778
146.022, 153.30029,	39.6338,	126.1792
146.023, 153.30582,	39.6387,	126.1805
146.024, 153.31134,	39.6436,	126.1819
146.025, 153.31688,	39.6482,	126.1825
146.026, 153.32249,	39.6529,	126.1829
146.027, 153.32823,	39.6577,	126.1833
146.028, 153.33508,	39.6634,	126.1838
146.029, 153.34258, 146.030, 153.34981,	39.6696,	126.1844 126.1849
146.030, 153.34981, 146.031, 153.35559,	39.6756, 39.6804,	126.1849
146.032, 153.36128,	39.6853,	126.1854
146.032, 153.36703,	39.6833,	126.1871
146.034, 153.37267,	39.6950,	126.1879
146.035, 153.37827,	39.7002,	126.1882
146.036, 153.38440,	39.7062,	126.1883
146.037, 153.39000,	39.7116,	126.1883
146.038, 153.39575,	39.7172,	126.1884
146.039, 153.40179,	39.7230,	126.1886
146.040, 153.40752,	39.7284,	126.1887
146.041, 153.41315,	39.7337,	126.1889
146.042, 153.41864,	39.7390,	126.1889
146.043, 153.42448,	39.7447,	126.1887
146.044, 153.43027,	39.7504,	126.1885
146.045, 153.43623,	39.7562,	126.1882
146.046, 153.44199,	39.7620,	126.1877
147.001, 153.45161,	39.7718,	126.1867
147.002, 153.45741,	39.7777,	126.1861
147.003, 153.46323,	39.7838,	126.1855
147.004, 153.46887,	39.7897,	126.1850
147.005, 153.47502,	39.7962,	126.1844
147.006, 153.48058,	39.8022,	126.1837
147.007, 153.48622,	39.8085,	126.1827
147.008, 153.49185,	39.8147,	126.1817
147.009, 153.49753,	39.8210,	126.1807
147.010, 153.50296,	39.8270,	126.1797
147.011, 153.50850,	39.8330,	126.1785
147.012, 153.51405,	39.8390,	126.1773
147.013, 153.51956, 147.014, 153.52499,	39.8449, 39.8508,	126.1762 126.1750
147.014, 133.32479,	37.0300,	120.1/30

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TAPE.FILE TIME	LATITUDE	LONGITUDE
147.015, 153.53029,	39.8565,	126.1739
147.016, 153.53748,	39.8643,	126.1723
147.017, 153.54283,	39.8700,	126.1713
147.018, 153.54810,	39.8757,	126.1706
147.019, 153.55333,	39.8813,	126.1700
147.020, 153.55855,	39.8869,	126.1694
147.021, 153.56372,	39.8924,	126.1690
147.022, 153.56911,	39.8980,	126.1697
147.023, 153.57437,	39.9036,	126.1703
147.024, 153.57957,	39.9091,	126.1709
147.025, 153.58496,	39.9148,	126.1713
147.026, 153.59013,	39.9203,	126.1712
147.027, 153.59532,	39.9259,	126.1711
147.028, 153.60049,	39.9314,	126.1711
147.029, 153.60591,	39.9373,	126.1710
147.030, 153.61105,	39.9428,	126.1709
147.031, 153.61832,	39.9505,	126.1708
147.032, 153.62358,	39.9562,	126.1707
147.033, 153.62929,	39.9623,	126.1706
147.034, 153.63538,	39.9689,	126.1706
147.035, 153.64069,	39.9746,	126.1705
147.036, 153.64609,	39.9804,	126.1703
147.037, 153.65134,	39.9863,	126.1694
147.038, 153.65884,	39.9947,	
147.039, 153.66411,	40.0006,	126.1681 126.1672
147.040, 153.66913,	40.0063,	
147.041, 153.67421,	40.0003,	126.1661 126.1649
147.042, 153.67934,	40.0121,	126.1649
147.042, 153.67954,	40.0130,	126.1637
147.044, 153.68956,	40.0238,	
147.045, 153.73335,	40.0297,	126.1612 126.1519
148.001, 153.74655,	40.0798,	126.1519
148.003, 153.75262,		
148.004, 153.75922,	40.1025,	126.1537 126.1546
148.005, 153.76523,	40.1103,	
148.006, 153.77100,	40.1174, 40.1242,	126.1554 126.1562
148.007, 153.77667,	40.1242,	
148.008, 153.78239,	40.1309,	126.1570
148.009, 153.78813,	40.1377,	126.1579
148.010, 153.79393,	40.1514,	126.1587
148.011, 153.79944,	40.1514,	126.1595
148.012, 153.80536,	40.1379,	126.1603
148.013, 153.81113,	40.1717,	126.1611
148.014, 153.81674,	40.1717,	126.1619
		126.1627
148.015, 153.82239, 148.016, 153.82915,	40.1850, 40.1930,	126.1635
148.017, 153.83452,	40.1930,	126.1644
		126.1652
	40.2066,	126.1660
•	40.2132,	126.1668
•	40.2200,	126.1676
	40.2261,	126.1683
148.022, 153.86270,	40.2327,	126.1691

TAPE.FILE	TIME	LATITUDE	LONGITUDE
148.023,	153.87114,	40.2426,	126.1703
148.024,	153.87646,	40.2494,	126.1710
148.025,	153.88196,	40.2576,	126.1712
148.026,	153.88744,	40.2658,	126.1714
148.027,	153.89281,	40.2738,	126.1717
148.028,	153.89795,	40.2818,	126.1718
148.029,	153.90340,	40.2909,	126.1717
148.030,	153.90868,	40.2996,	126.1717
148.033,	153.92458,	40.3260,	126.1716
148.034,	153.92970,	40.3345,	126.1715
148.035,	153.93488,	40.3431,	126.1715
148.036,	153.94101,	40.3532,	126.1715
148.037,	153.94633,	40.3620,	126.1715
148.038,	153.95229,	40.3718,	126.1714
148.039,	153.95764,	40.3807,	126.1714
148.040,	153.96234,	40.3885,	126.1714
148.041,	153.96721,	40.3965,	126.1714
148.042,	153.97209,	40.4046,	126.1713
148.043,	153.97687,	40.4126,	126.1713
148.044,	153.98166,	40.4205,	126.1713
148.045,	153.98654,	40.4286,	126.1713
148.046,	153.99150,	40.4368,	126.1712
148.047,	153.99638,	40.4448,	126.1712
148.048,	154.00160,	40.4535,	126.1712
148.049,	154.00636,	40.4613,	126.1711
148.050,	154.01111,	40.4692,	126.1711
148.051,	154.01660,	40.4783,	126.1710
148.052,	154.02147,	40.4864,	126.1710
148.053,	154.02650,	40.4947,	126.1710
148.054,	154.03156,	40.5031,	126.1709
148.055,	154.03638,	40.5111,	126.1709
148.056,	154.04129,	40.5193,	126.1709
148.058,	154.04802,	40.5304,	126.1709
148.059,	154.05342,	40.5393,	126.1708
148.060,	154.05820,	40.5472,	126.1708
148.061,	154.06296,	40.5551,	126,1708
148.062,	154.06787,	40.5632,	126.1708
148.063,	154.07596,	40.5766,	126,1707
148.064,	154.08115,	40.5852,	126.1707
149.001,	154.08846,	40.5973,	126.1707
149.002,	154.09348,	40.6056,	126,1707
149.003,	154.09886,	40.6146,	126.1706
149.004,	154.10402,	40.6231,	126.1706
149.005,	154.10887,	40.6312,	126,1706
149.006,	154.11823,	40.6466,	126.1705
149.007,	154.12318,	40.6548,	126.1704
149.008,	154.12813,	40.6630,	126.1704
149.009,	154.13309,	40.6712,	126.1704
149.010,	154.13812,	40.6795,	126.1703
149.011,	154.14301,	40.6876,	126.1703
149.012,	154.14799,	40.6959,	126.1703
149.013,	154.15303,	40.7043,	126.1703

TAPE.FIL	E TIME	LATITUDE	LONGITUDE
149.014,	154.15788,	40.7123,	126.1702
149.015,	154.16284,	40.7205,	126.1702
149.016,	154.16769,	40.7286,	126.1702
149.017,	154.17285,	40.7371,	126.1702
149.018,	154.17775,	40.7452,	126.1701
149.019,	154.18260,	40.7532,	126.1701
149.020,	154.18741,	40.7611,	126.1701
149.021,	154.19244,	40.7695,	126.1701
149.022,	154.20111,	40.7838,	126.1700
149.023,	154.20641,	40.7926,	126.1700
149.024,	154.21199,	40.8019,	126.1700
149.025,	154.21719,	40.8105,	126.1699
149.026,	154.22343,	40.8209,	126.1699
149.027,	154.22920,	40.8304,	126.1698
149.028,	154.23409,	40.8385,	126.1698
149.029,	154.24097,	40.8499,	126.1697
149.030,	154.24594,	40.8581,	126 1697
149.031,	154.25157,	40.8674,	126.1697
149.032,	154.25815,	40.8783,	126.1697
149.033,	154.26314,	40.8866,	126.1696
149.034,	154.26825,	40.8950,	126.1696
149.035,	154.27330,	40.9034,	126.1696
149.036,	154.27809,	40.9113,	126.1696
149.037,	154.28453,	40.9220,	126.1695
149.038,	154.28970,	40.9305,	126.1695
149.039,	154.29485,	40.9391,	126.1695
149.040,	154.30011,	40.9478,	126.1695
149.041,	154.30544,	40.9566,	126.1694
149.042,	154.31088,	40.9656,	126.1694
149.043,	154.31607,	40.9742,	126.1694
149.044,	154.32121,	40.9827,	126.1693
149.045,	154.32643,	40.9914,	126.1693
149.046,	154.76926,	39.6541,	124.9779 124.9753
149.047,	154.77534,	39.6487,	124.9733
149.048, 149.049,	154.78133, 154.78746,	39.6414, 39.6339,	124.9731
149.049,	•	39.6256,	124.9690
149.050,		39.6176,	124.9686
149.051,		39.6098,	124.9681
149.052,		39.6017,	124.9677
149.054,		39.5939,	124.9672
149.055,		39.5859,	124.9668
149.056,		39.5782,	124.9663
150.002,		39.5663,	124.9669
150.002,		39.5578,	124.9681
150.004,		39.5498,	124.9693
150.005,		39.5417,	124.9705
150.006,		39.5332,	124.9723
150.007,		39.5210,	124.9748
150.008,		39.5126,	124.9765
150.009,		39.5018,	124.9788
150.010,		39.4934,	124.9805

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TAPE.FIL	E TIME	LATITUDE	LONGITUDE
150.011,	154.89420,	39.4849,	124.9823
150.013,	154.90562,	39.4683,	124.9852
150.014,	154.91145.	39.4598,	124.9865
150.015,	154.91727,	39.4513,	124.9879
150.017,	154.92879,	39.4347,	124.9905
150.018,	154.93452,	39.4264,	124.9917
150.019,	154.94072	39.4174,	124.9931
150.020,	154.94649,	39.4091,	124.9944
150.021,	154.95219,	39.4009,	124.9956
150.022,	154.95772,	39.3929,	124.9969
150.023,	154.96327,	39.3849,	124.9981
150.024,	154.97101,	39.3737,	124.9998
150.025,	154.97650,	39.3658,	125.0010
150.027,	154.98204,	39.3577,	125.0019
150.028,	154.98749,	39.3497,	125.0024
150.030,	154.99405,	39.3400,	125.0030
150.031,	154.99997,	39.3313,	125.0035
150.032,	155.00560,	39.3227,	125.0023
150.033,	155.01117,	39.3141,	125.0011
150.034,	155.01674,	39.3056,	125.0000
150.035,	155.02217,	39.2971,	124.9991
150.036,	155.02774,	39.2879,	124.9992
150.037,	155.03317,	39.2790,	124.9993
150.038,	155.03949,	39.2686,	124.9994
150.039,	155.04486,	39.2595,	125.0001
150.040, 150.041,	155.05029, 155.05576,	39.2501, 39.2407,	125.0013 125.0024
150.041,	155.06674,	39.2216,	125.0024
150.043,	155.07216,	39.2123,	125.0048
150.045,	155.07764,	39.2028,	125.0072
150.046,	155.08319,	39.1931,	125.0084
150.047,	155.08856,	39.1838,	125.0095
150.048,	155.09401,	39.1744,	125.0107
150.049	155.09943,	39.1649,	125.0119
150.050	155.10484,	39.1555,	125.0130
150.051,	155.11026,	39.1461,	125.0142
150.052,	155.11572,	39.1367,	125.0154
151.001,	155.12346,	39.1233,	125.0171
151.002,	155.12898,	39.1137,	125.0183
151.003,	155.13498,	39.1034,	125.0196
151.004,	155.14038,	39.0940,	125.0207
151.005,	155.14584,	39.0846,	125.0219
151.006,	155.15125,	39.0752,	125.0231
151.007,	155.15672,	39.0657,	125.0243
151.010,	155.16565,	39.0502,	125.0263
151.011,	155.17128,	39.0404,	125.0268
151.012,	155.17680,	39.0308,	125.0272
151.014,	155.18254,	39.0209,	125.0276
151.015,	155.18819,	39.0111,	125.0278
151.016,	155.19382,	39.0013,	125.0271
151.017,	155.20125,	38.9883,	125.0262
151.018,	155.20737,	38.9777,	125.0255

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TAPE.FILE TIME LATITU	IDE LONGITUDE
151 010 155 01000 00 077	
151.019, 155.21323, 38.967	75, 125.0248
151.020, 155.21935, 38.956	8, 125.0241
151.021, 155.22502, 38.946	
151.022, 155.23305, 38.932	
151.023, 155.24011, 38.920	
151.024, 155.24568, 38.910	
151.025, 155.25134, 38.901	
151.026, 155.25806, 38.889	•
151.027, 155.26483, 38.877	75, 125.0180
151.028, 155.27309, 38.863	30, 125.0165
151.029, 155.27859, 38.853	34, 125.0154
151.030, 155.28545, 38.841	125.0139
151.031, 155.29106, 38.831	125.0127
151.032, 155.29688, 38.821	
151.033, 155.30261, 38.811	
151.034, 155.30836, 38.801	
151.035, 155.31418, 38.791	
151.036, 155.31999, 38.780	
151.037, 155.32568, 38.770	
151.039, 155.33711, 38.750	
151.040, 155.34285, 38.740	
151.041, 155.34877, 38.730	
151.042, 155.35451, 38.720	
151.043, 155.36018, 38.710	
151.044, 155.36600, 38.699	99, 124.9968
151.045, 155.37445, 38.685	51, 124.9950
151.046, 155.38029, 38.674	8, 124.9938
151.047, 155.38599, 38.664	8, 124.9926
151.048, 155.39157, 38.655	
151.049, 155.39722, 38.645	
151.050, 155.40294, 38.635	
151.051, 155.40875, 38.624	
152.001, 155.42068, 38.603	
152.002, 155.42671, 38.593	•
152.003, 155.43246, 38.583	•
152.004, 155.43817, 38.573	•
152.005, 155.44388, 38.563	
152.007, 155.45537, 38.543	
152.008, 155.46092, 38.534	
152.009, 155.46648, 38.524	
152.010, 155.47202, 38.515	
152.012, 155.48264, 38.496	
152.013, 155.48865, 38.486	
152.014, 155.49425, 38.476	
152.015, 155.49985, 38.467	70, 124.9873
152.016, 155.50537, 38.457	
152.017, 155.51108, 38.447	
152.018, 155.51674, 38.437	
152.019, 155.52237, 38.428	
152.020, 155.52864, 38.417	

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153.027, 155.86670, 38.0197, 125.0039 153.028, 155.87216, 38.0271, 125.0036 153.029, 155.87782, 38.0351, 125.0032			
153.028, 155.87216, 38.0271, 125.0036 153.029, 155.87782, 38.0351, 125.0032			
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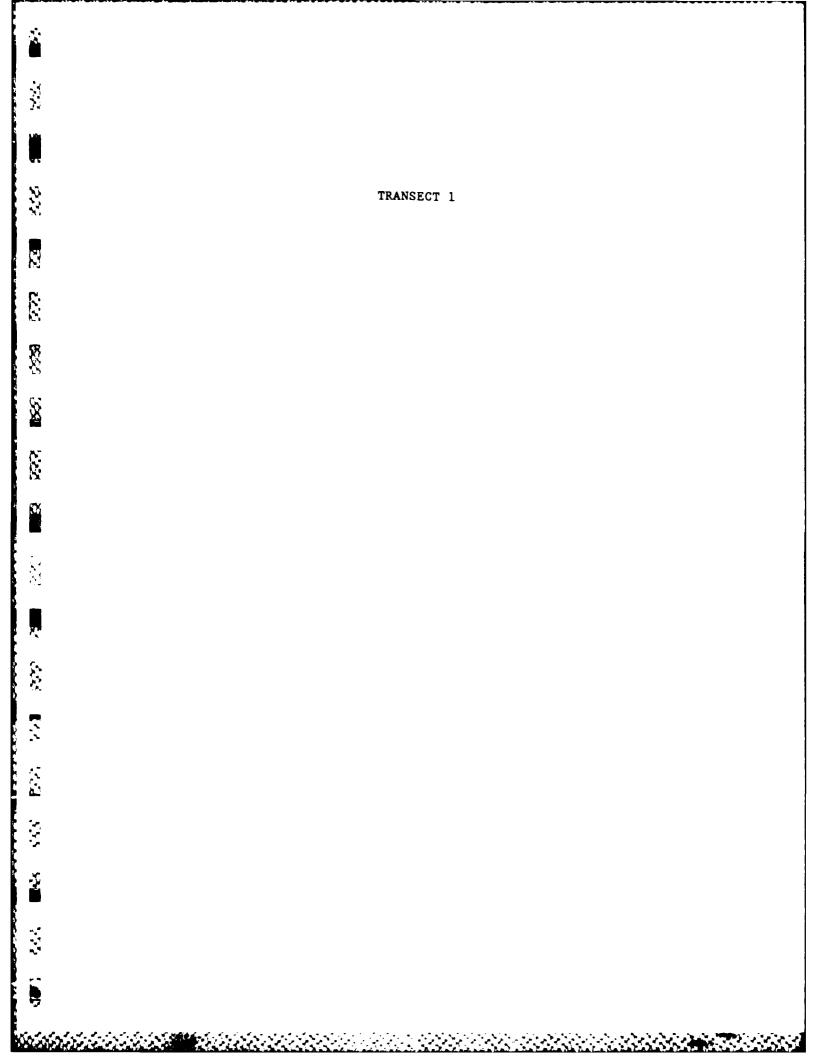
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153.036,	155.91762,	38.0942,	124.9980
153.037,	155.92311,	38.1024,	124.9971
153.038,	155.92863,	38.1107,	124.9962
153.039,	155.93430,	38.1192,	124.9953
153.041,	155.94206,	38.1307,	124.9939
153.042,	155.94777,	38.1390,	124.9928
153.042,	155.95332,	38.1471,	124.9928
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153.046,	155.97194,	38.1675,	124.9901 124.9893
153.040,	155.97768,	38.1731,	124.9893
153.047,	155.98341,	38.1784,	124.9882
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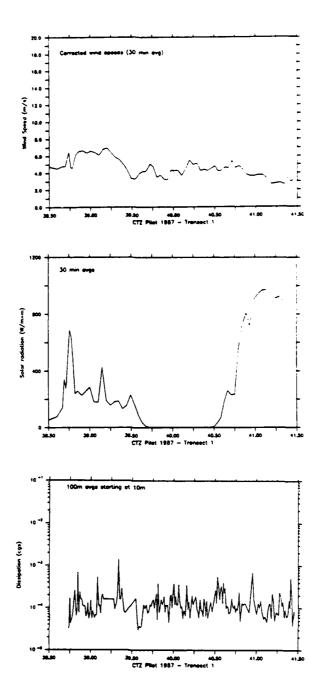
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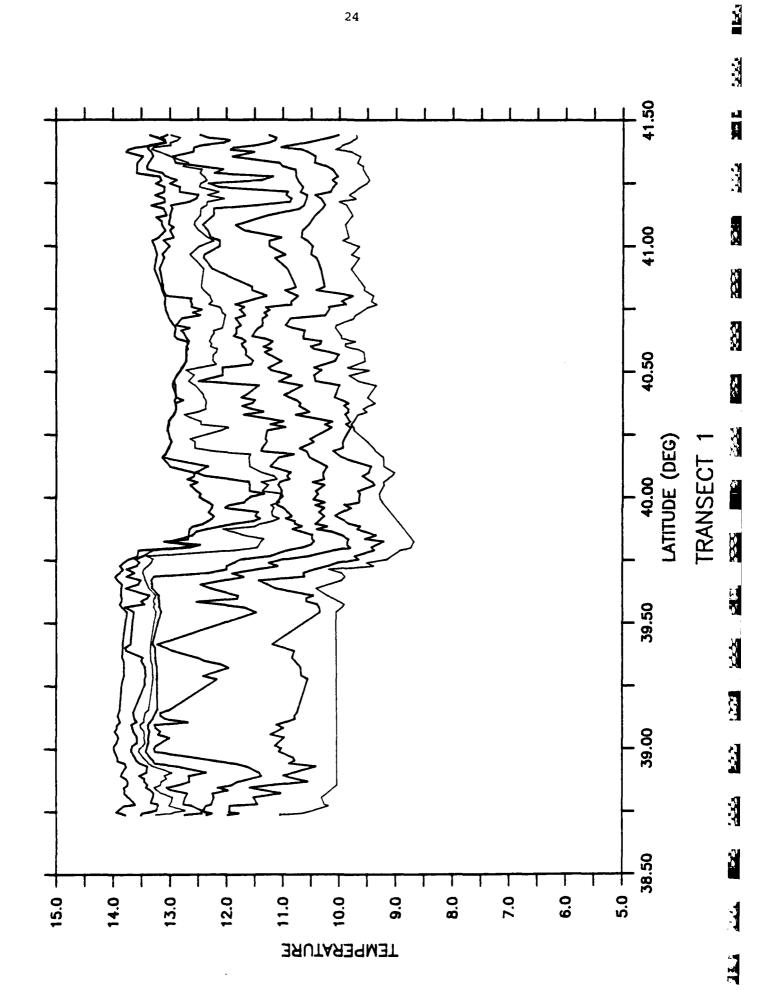
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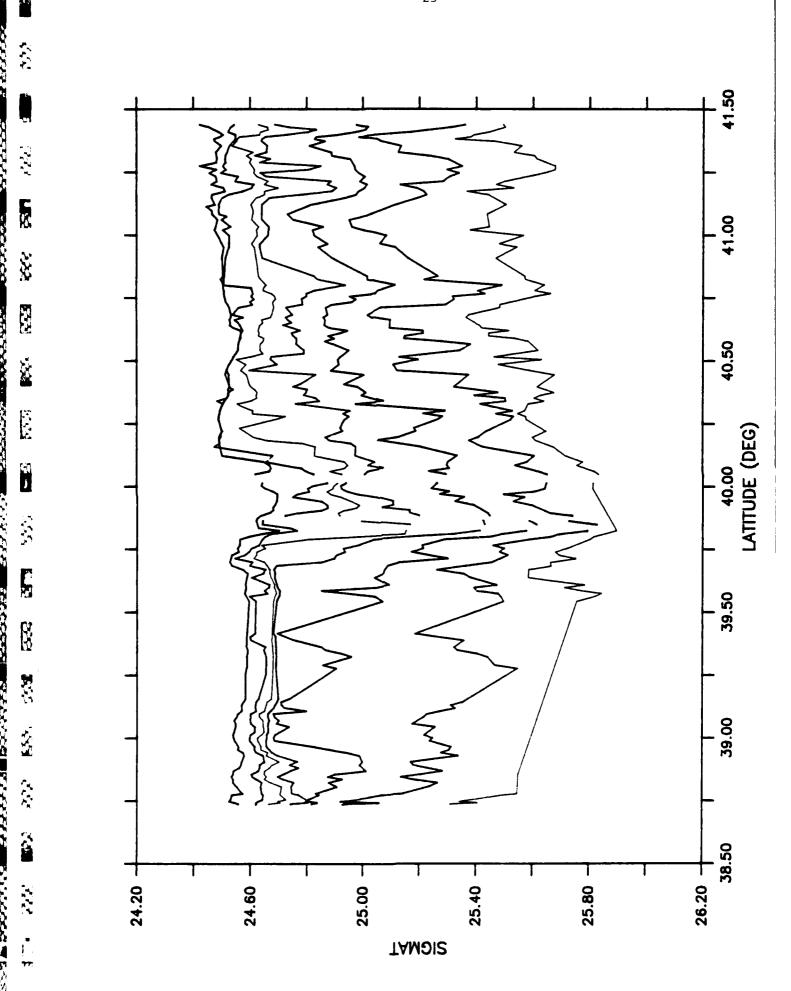


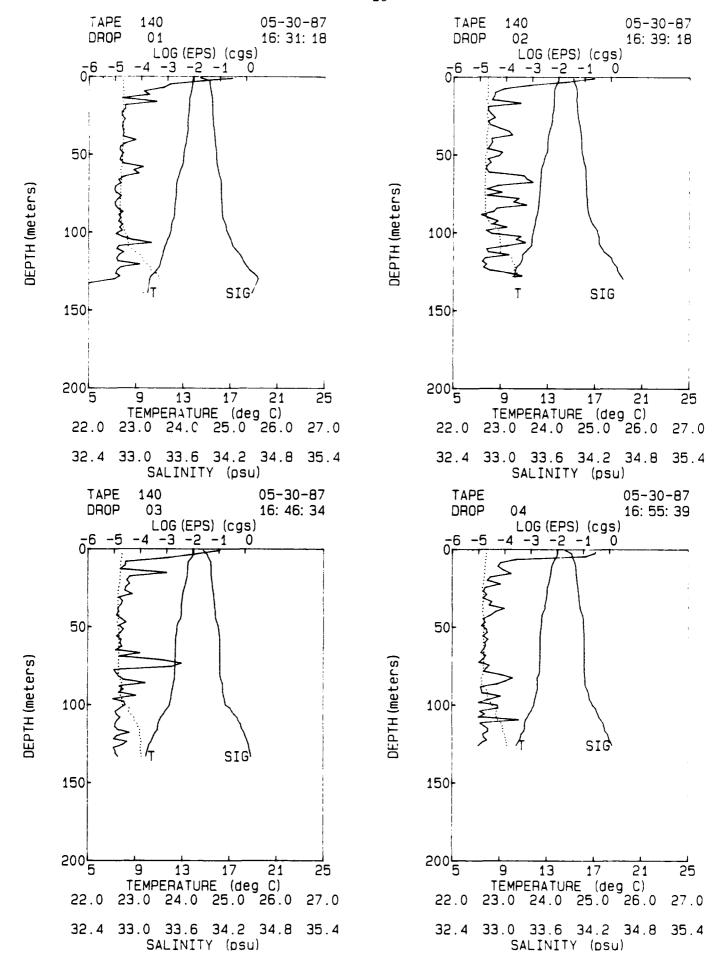


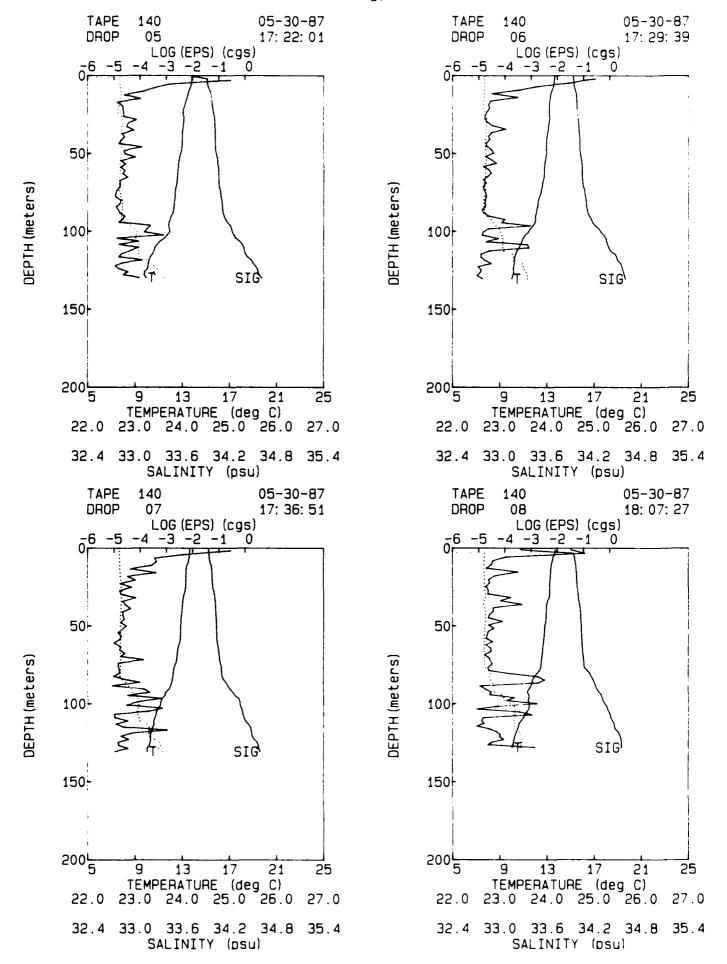
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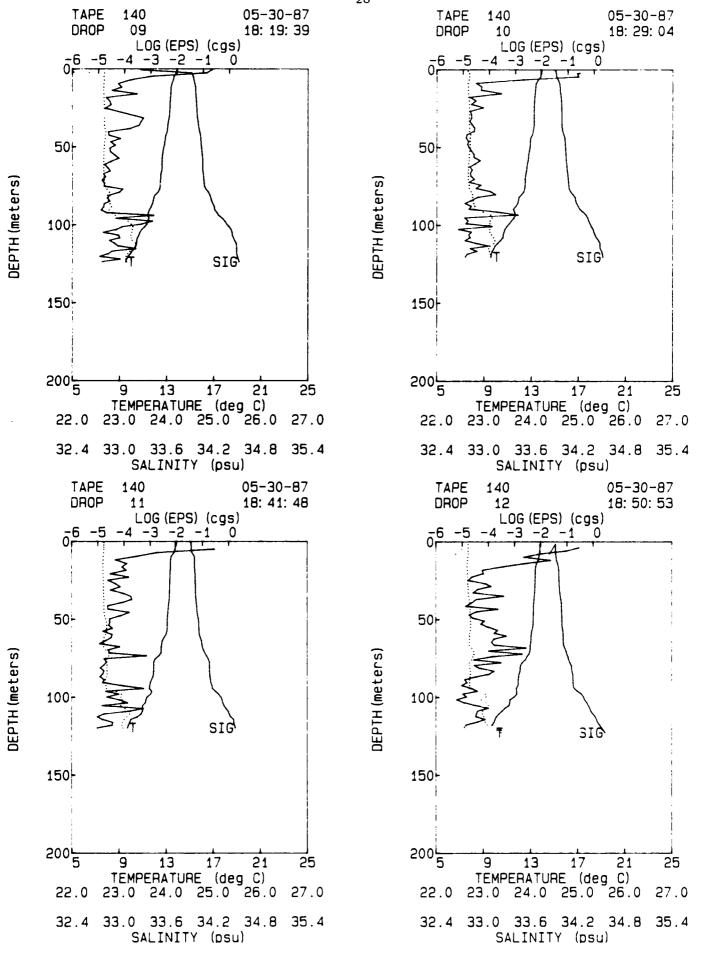






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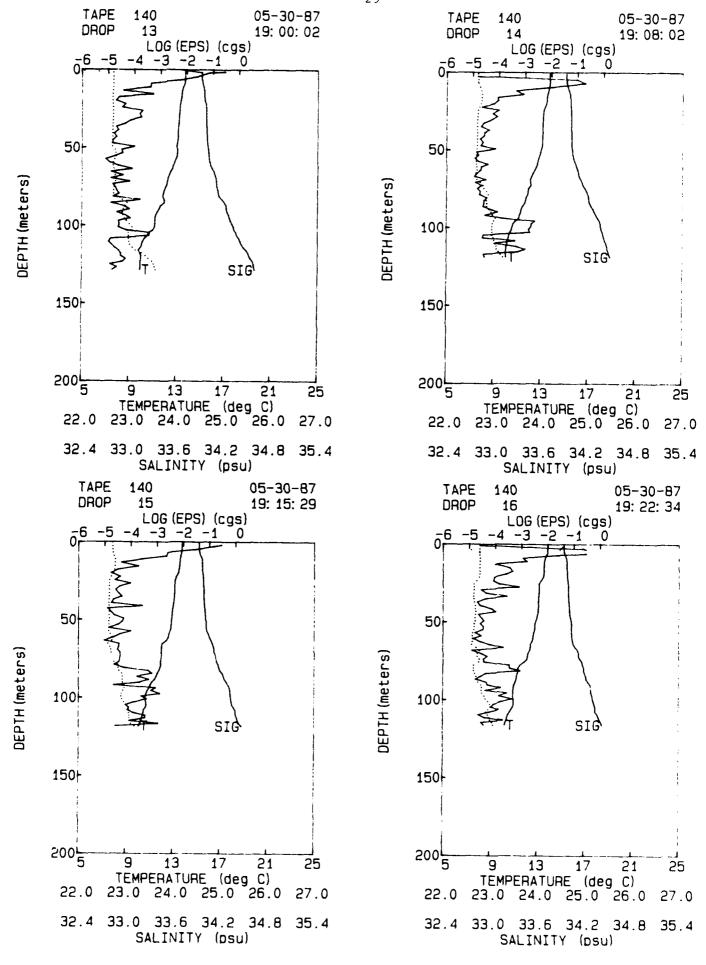
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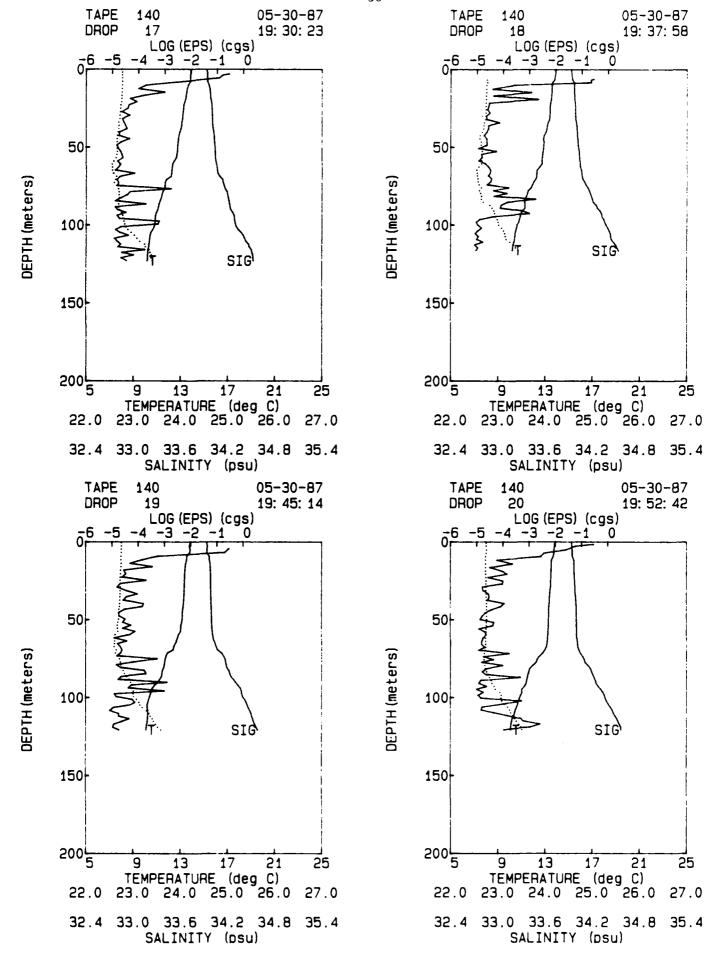


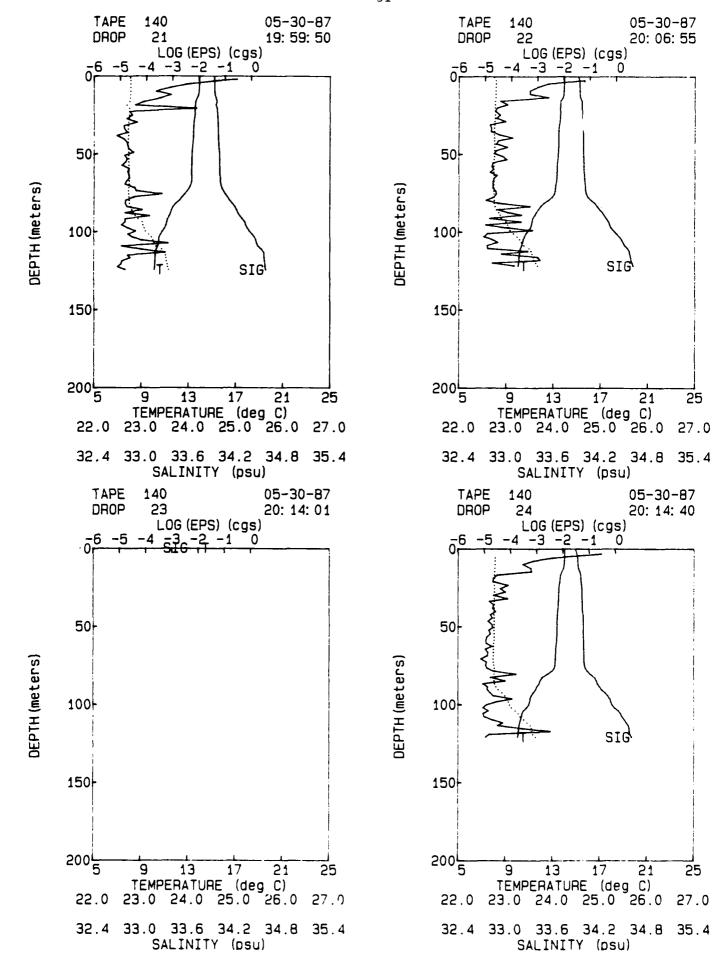
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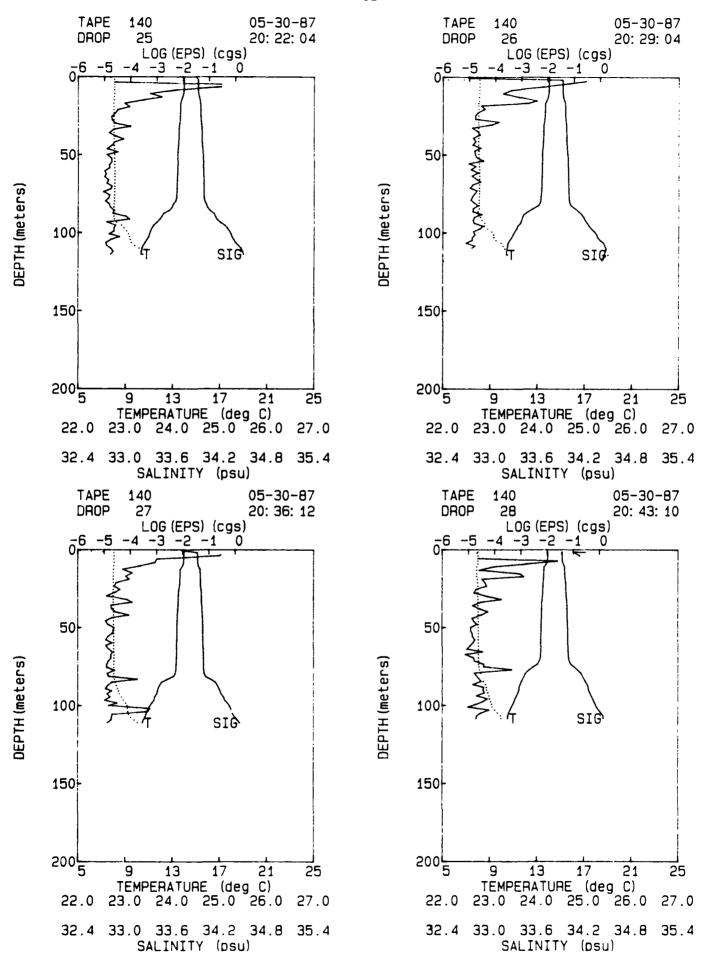
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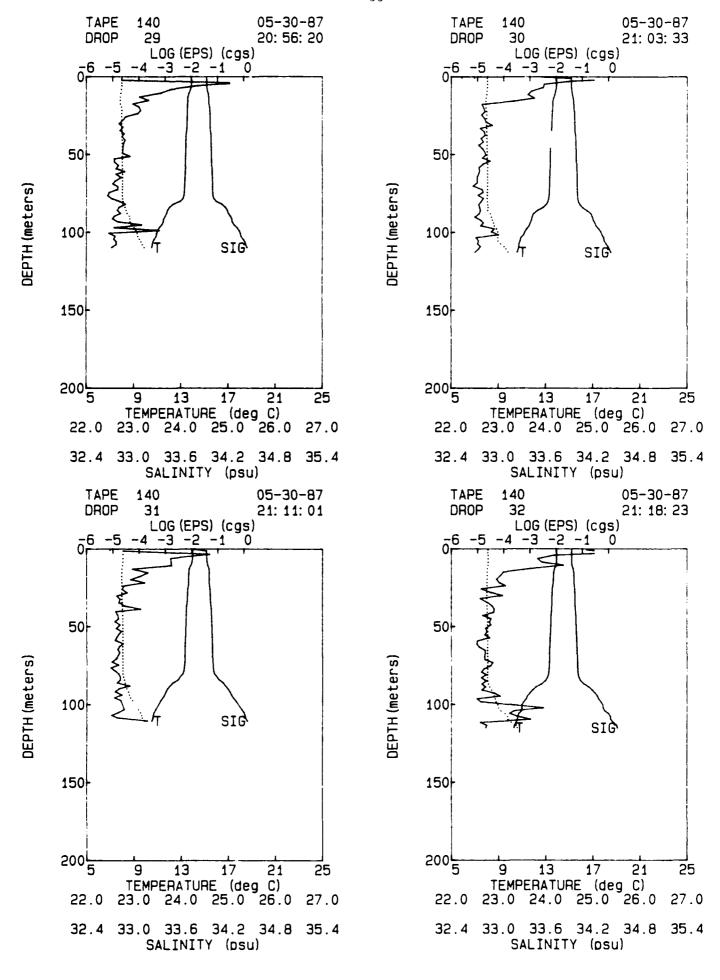


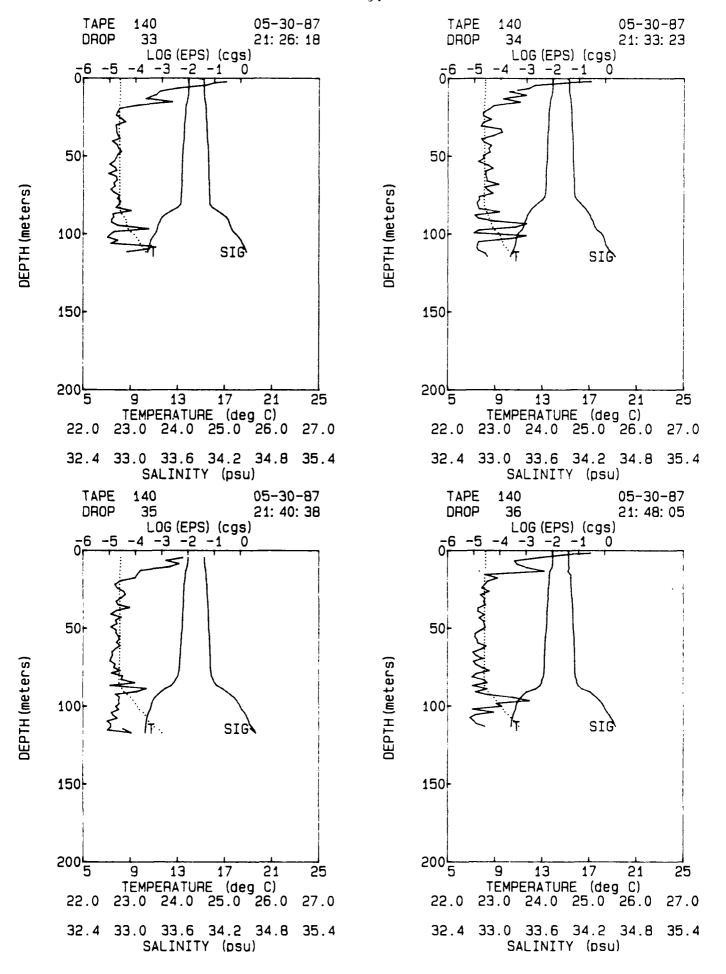




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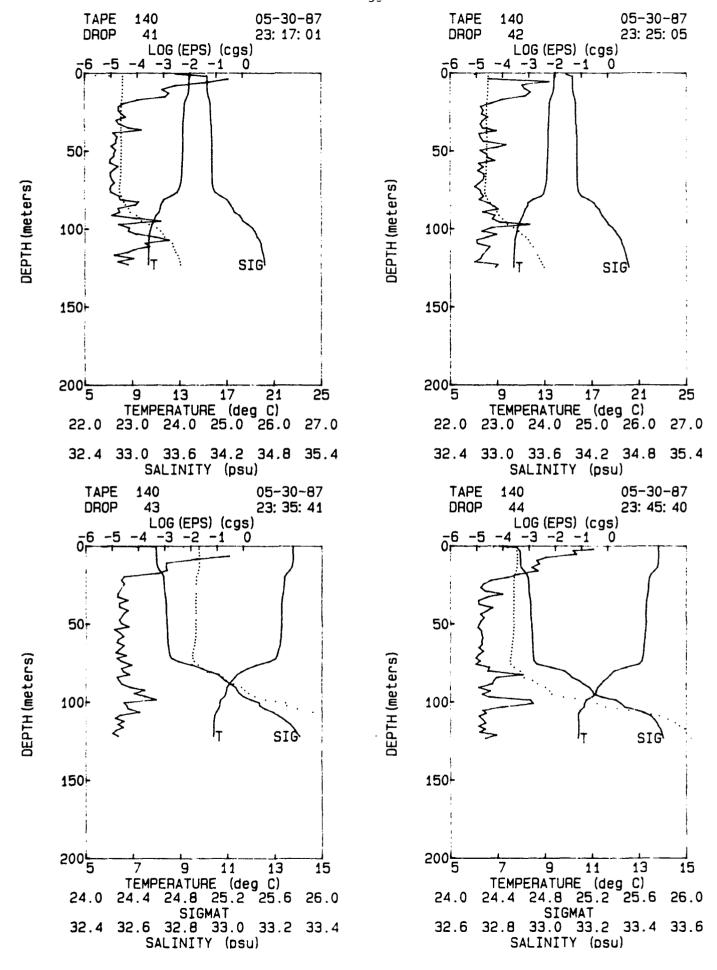
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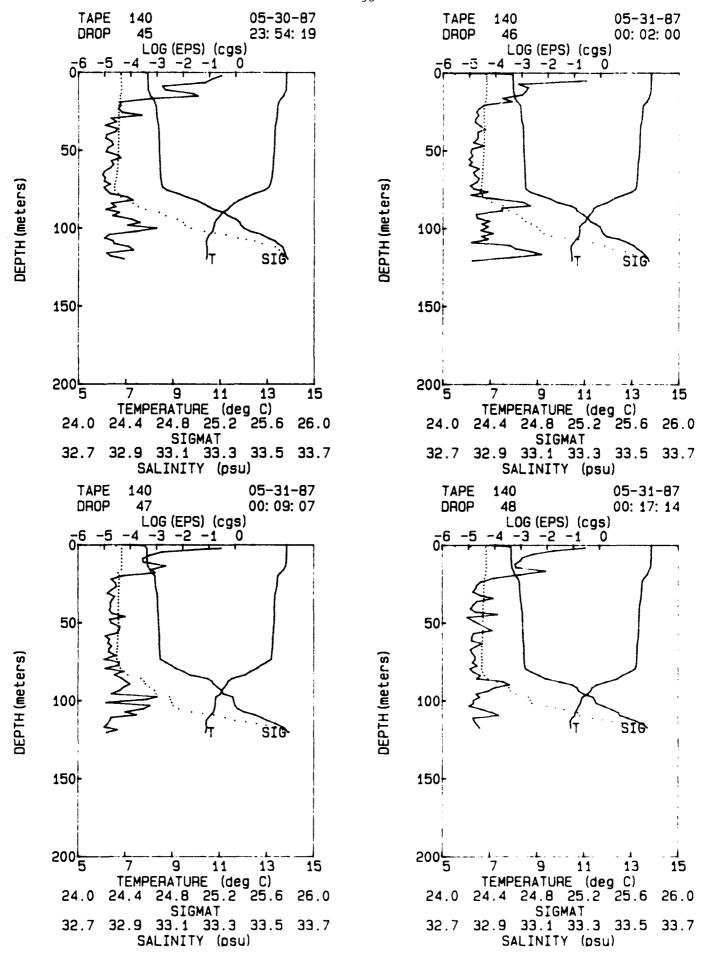
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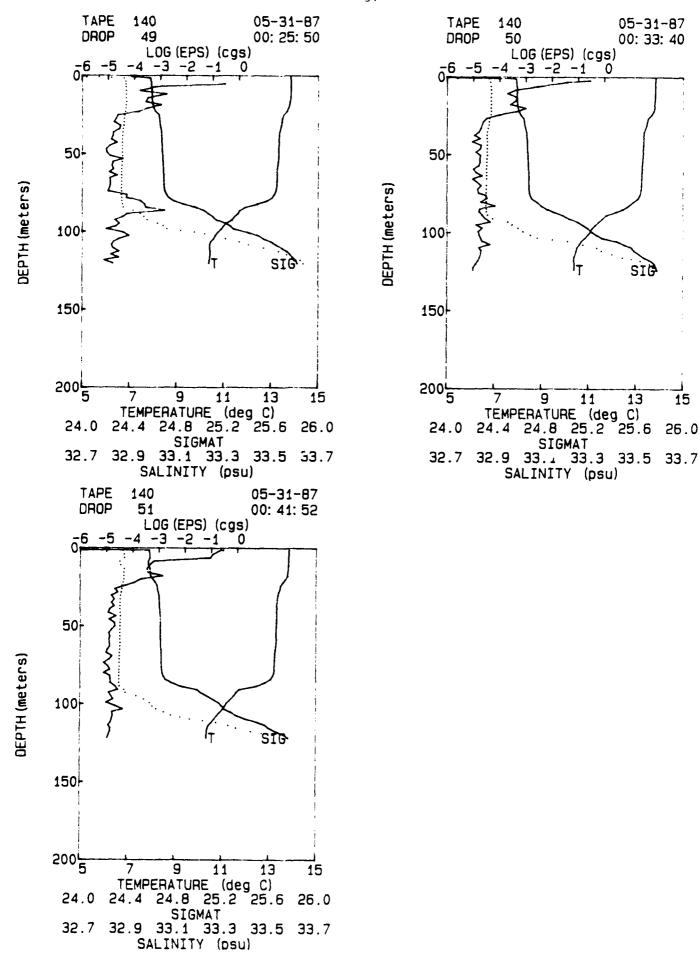
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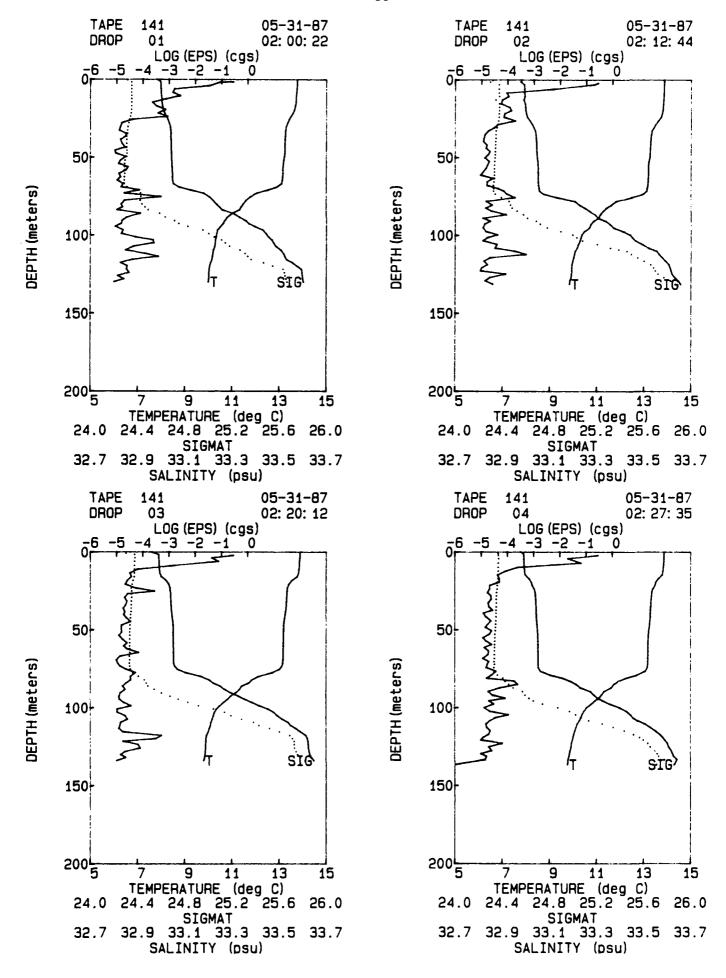


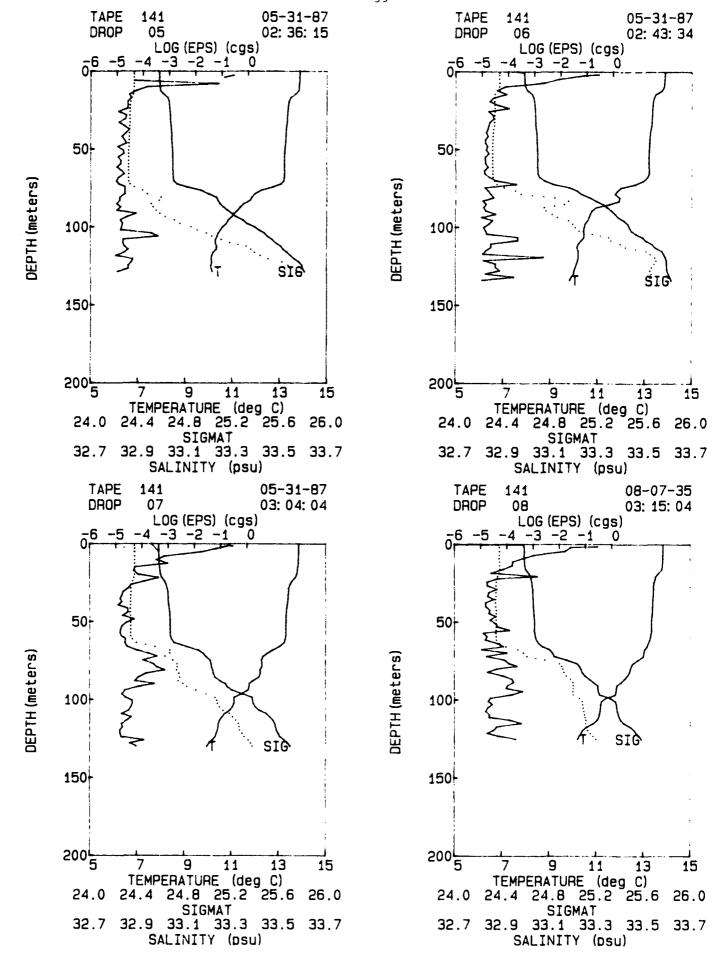


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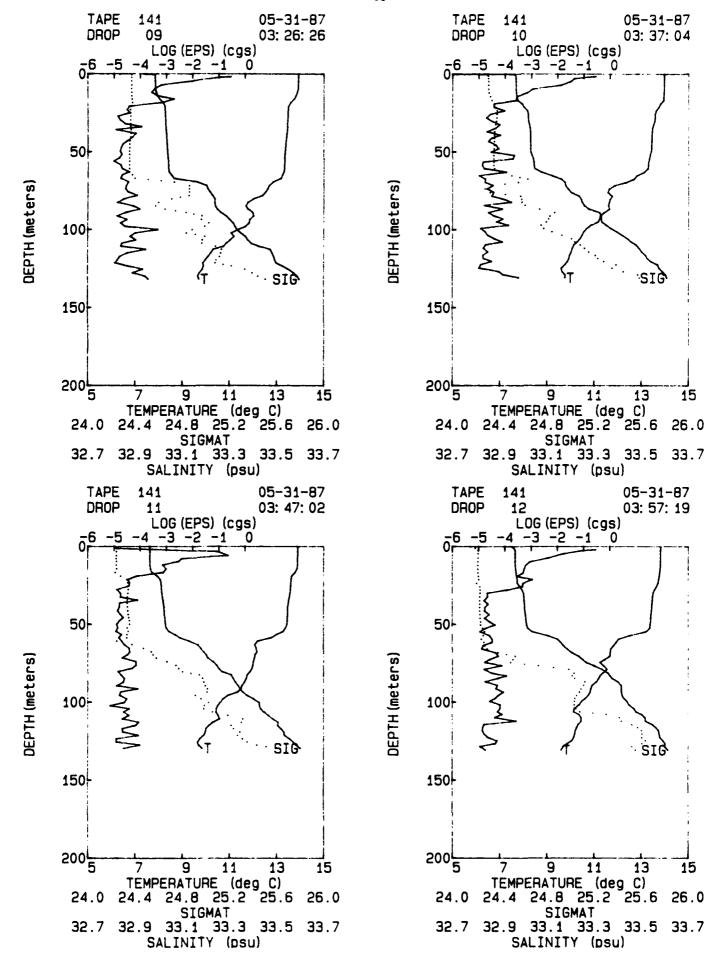
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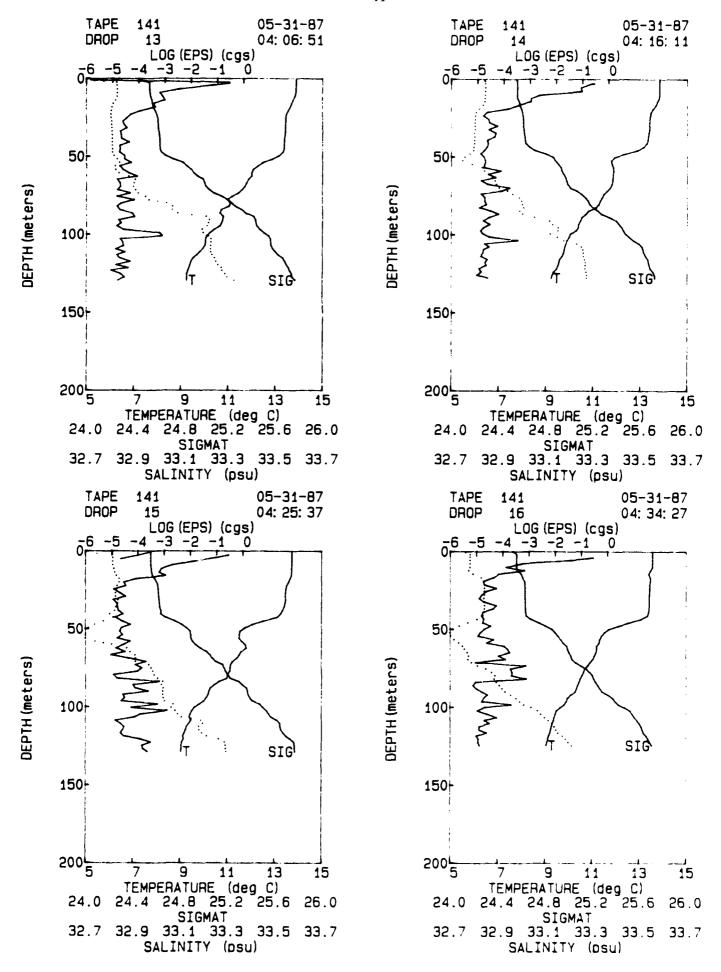
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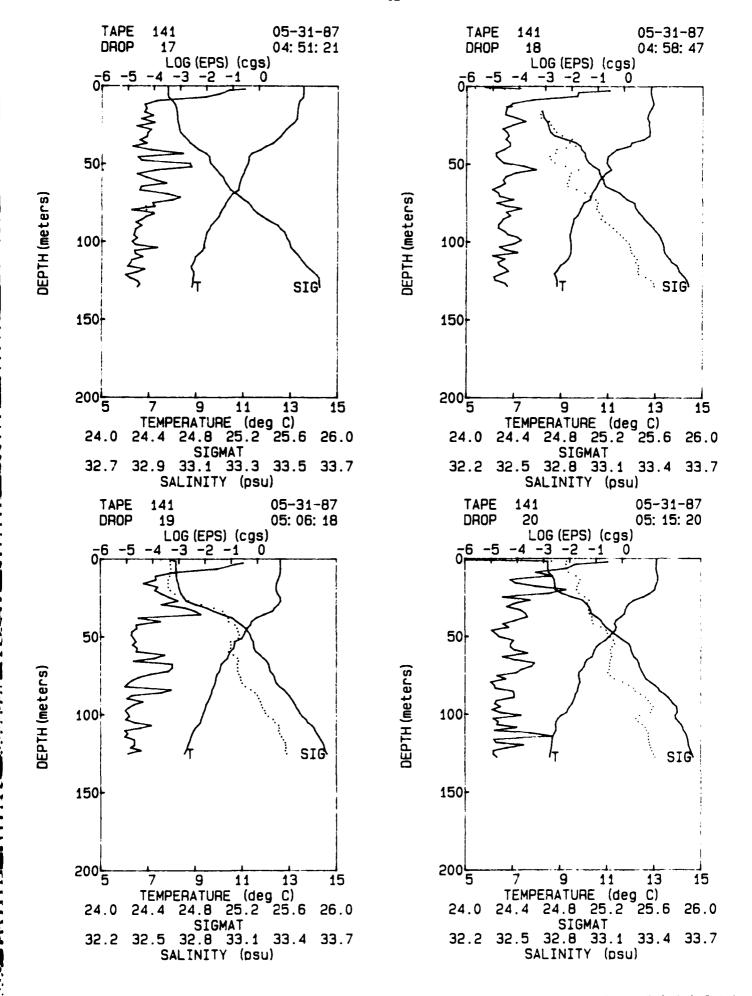
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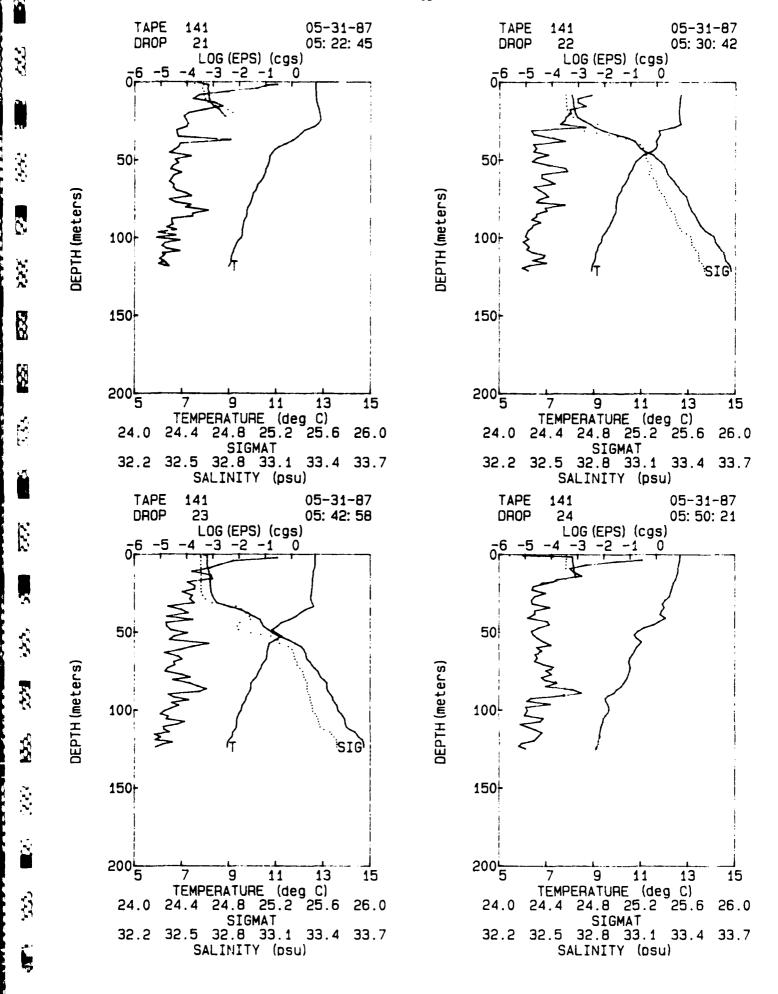
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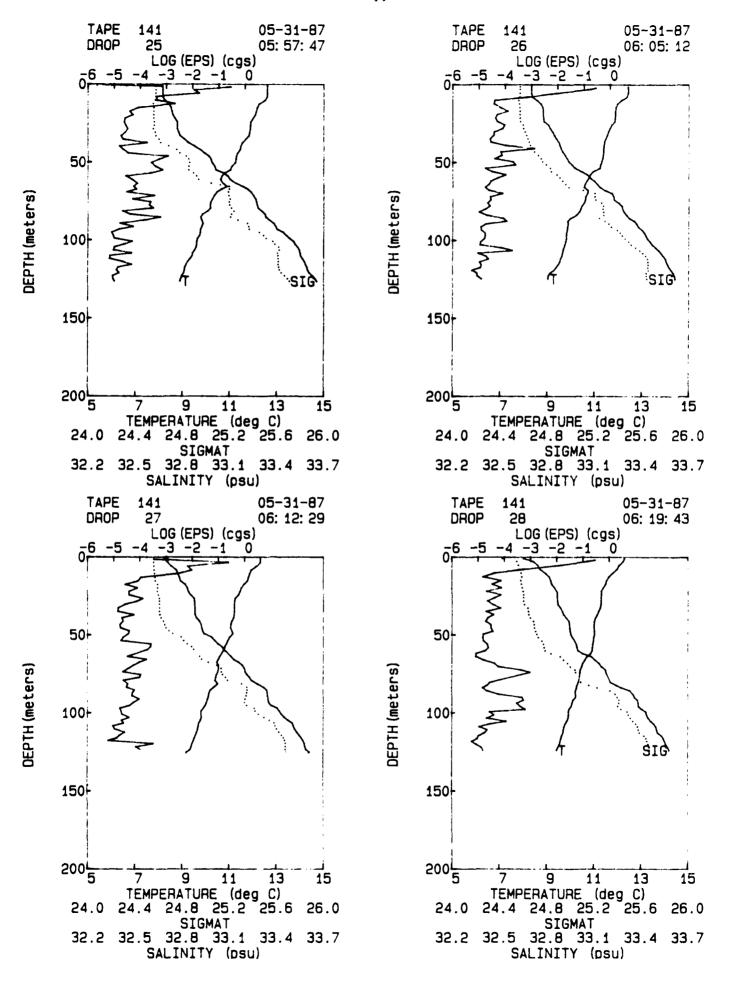
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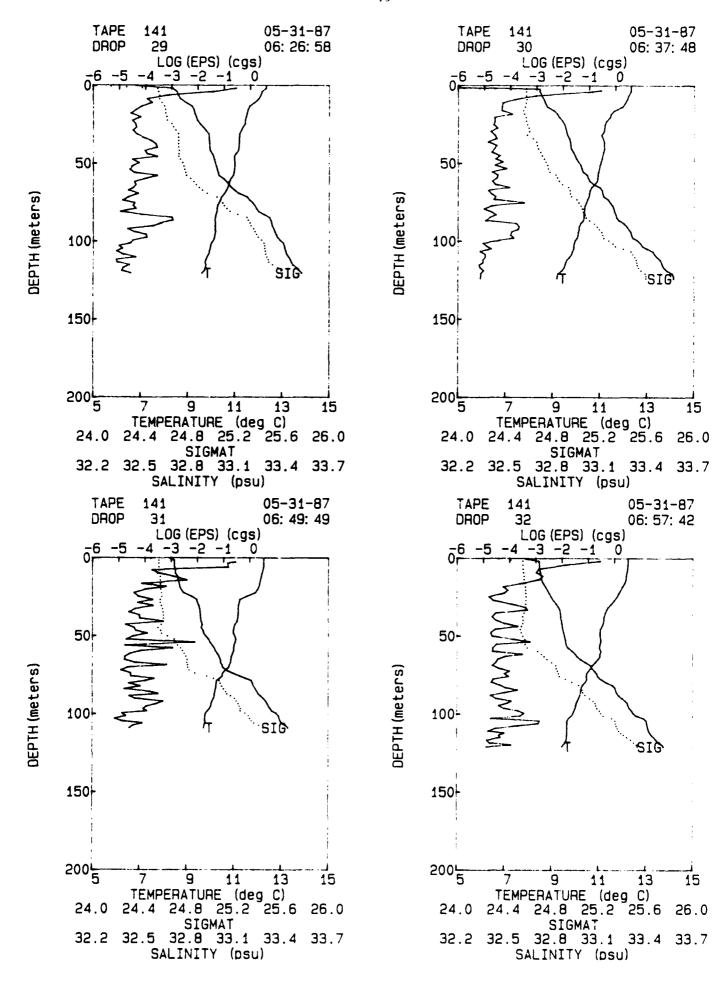
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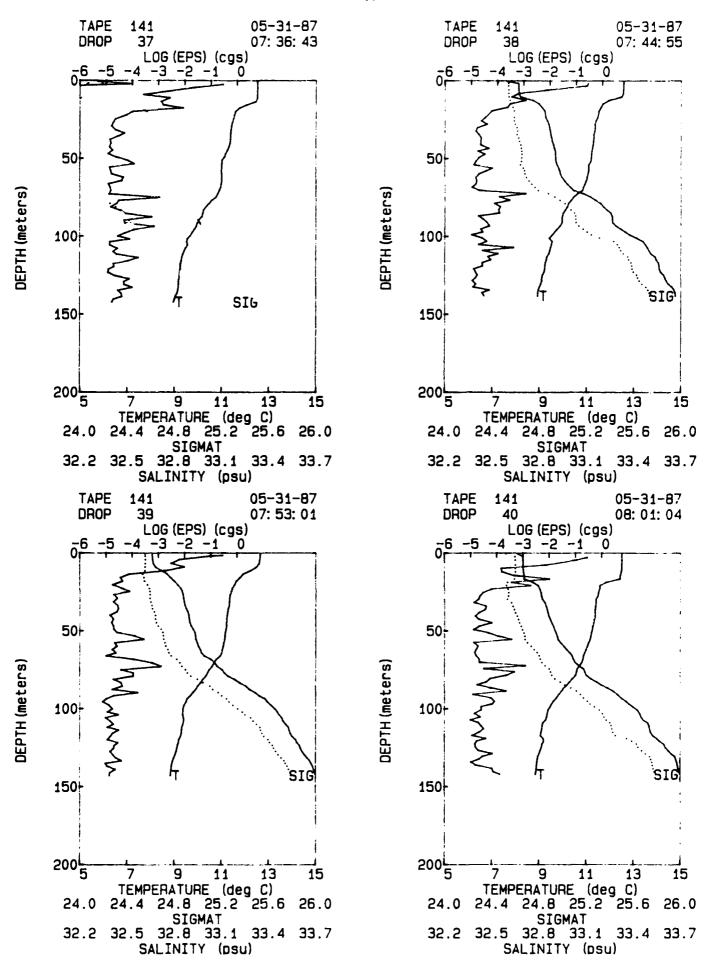
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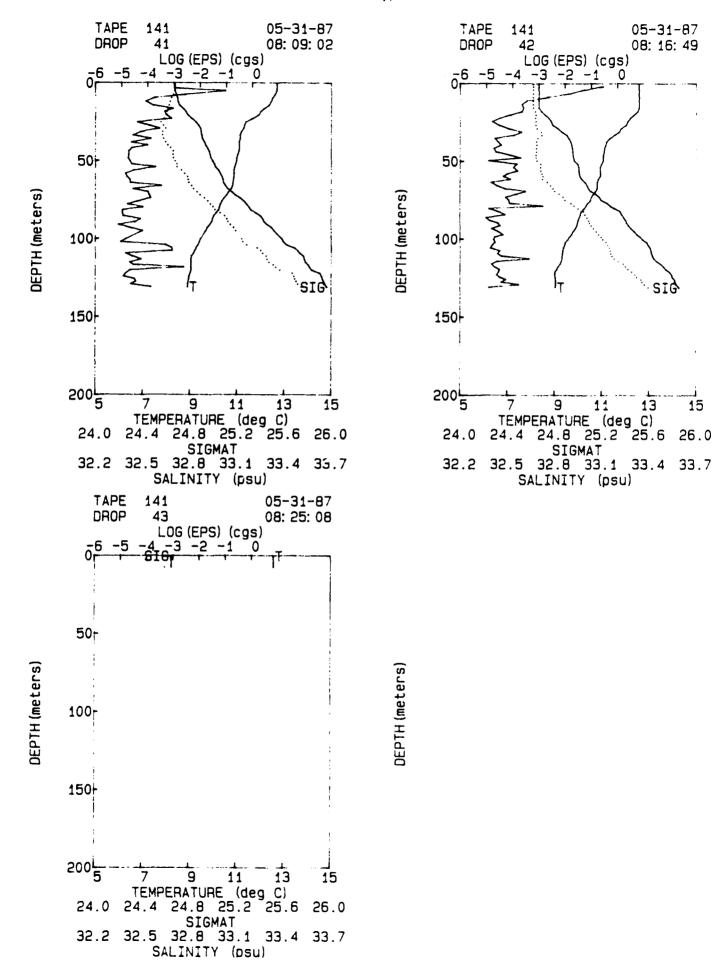
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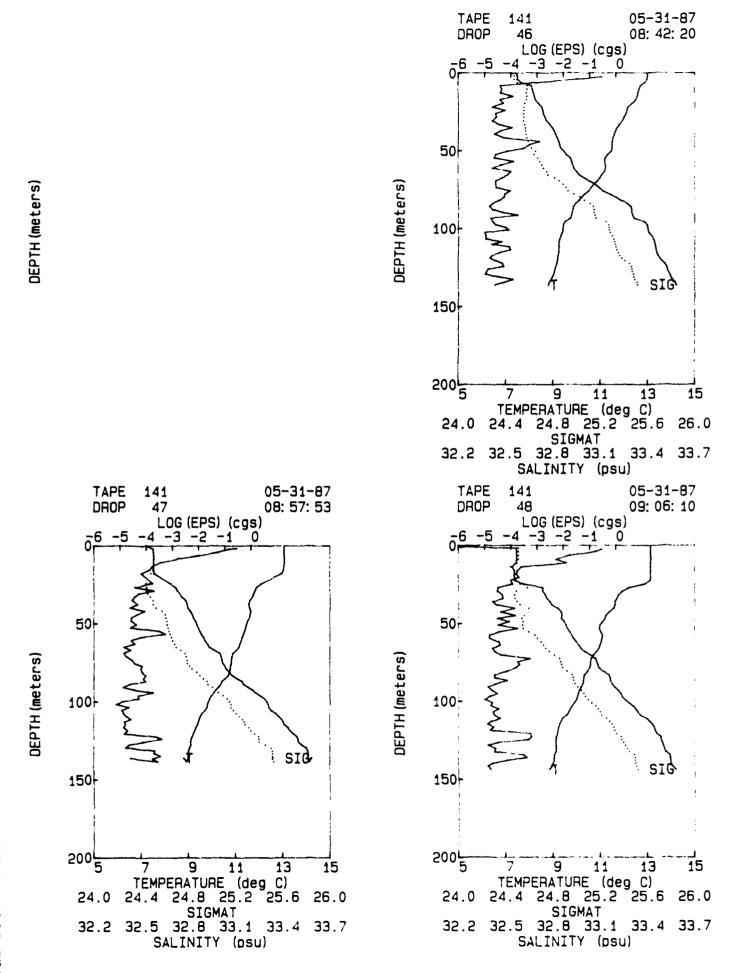
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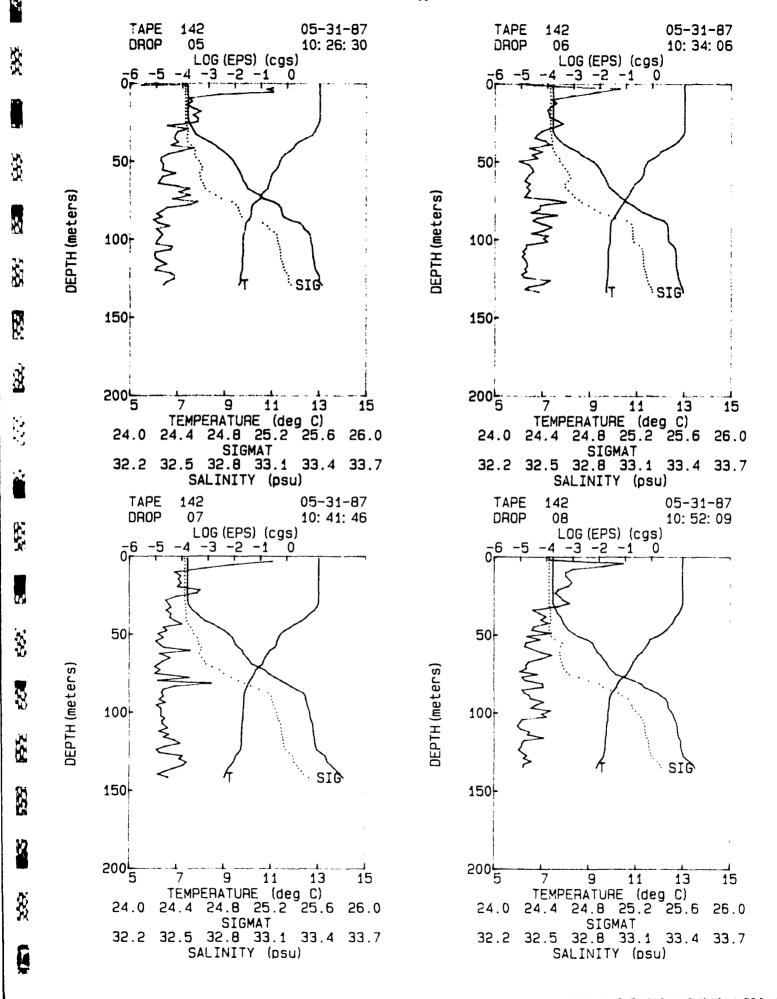


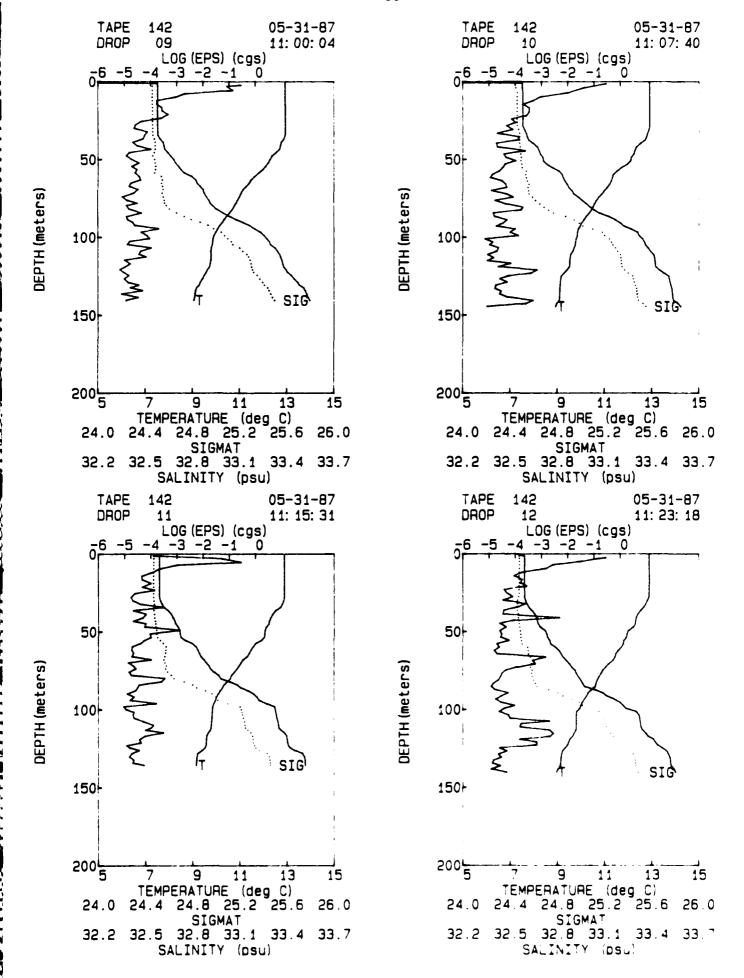


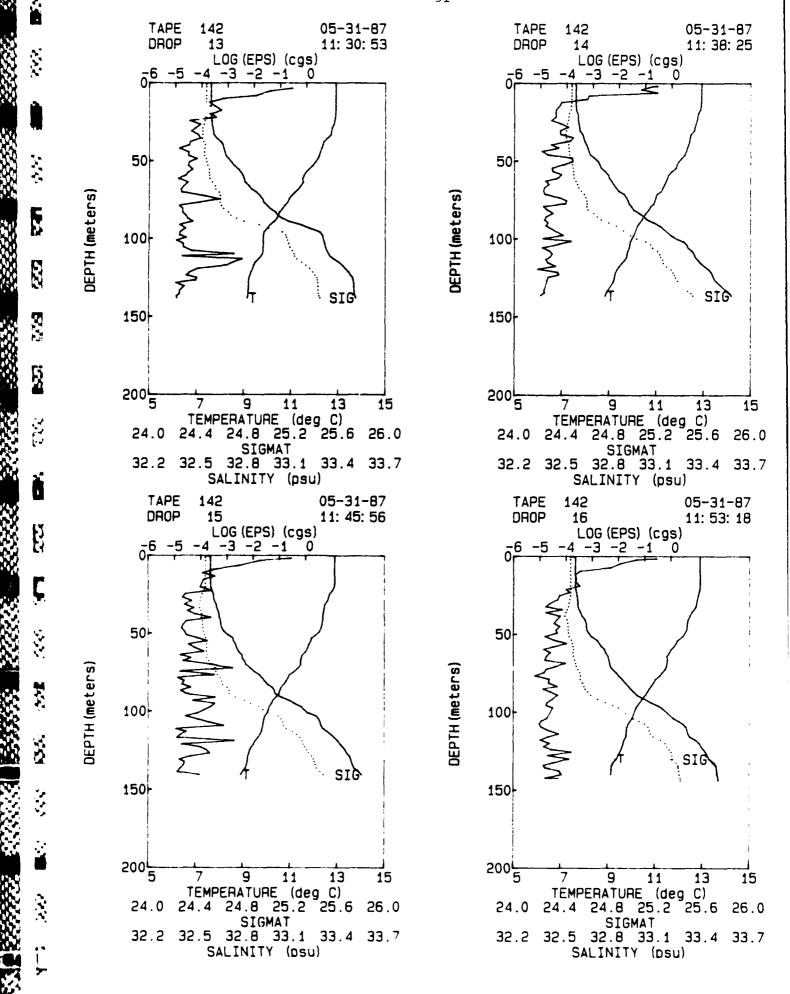


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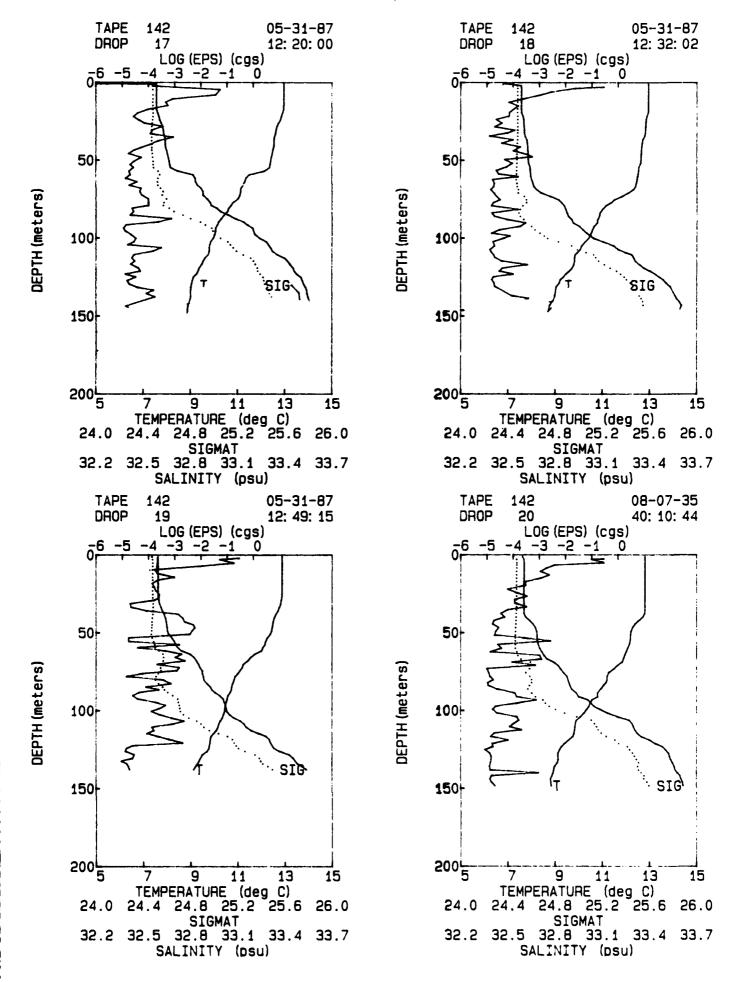


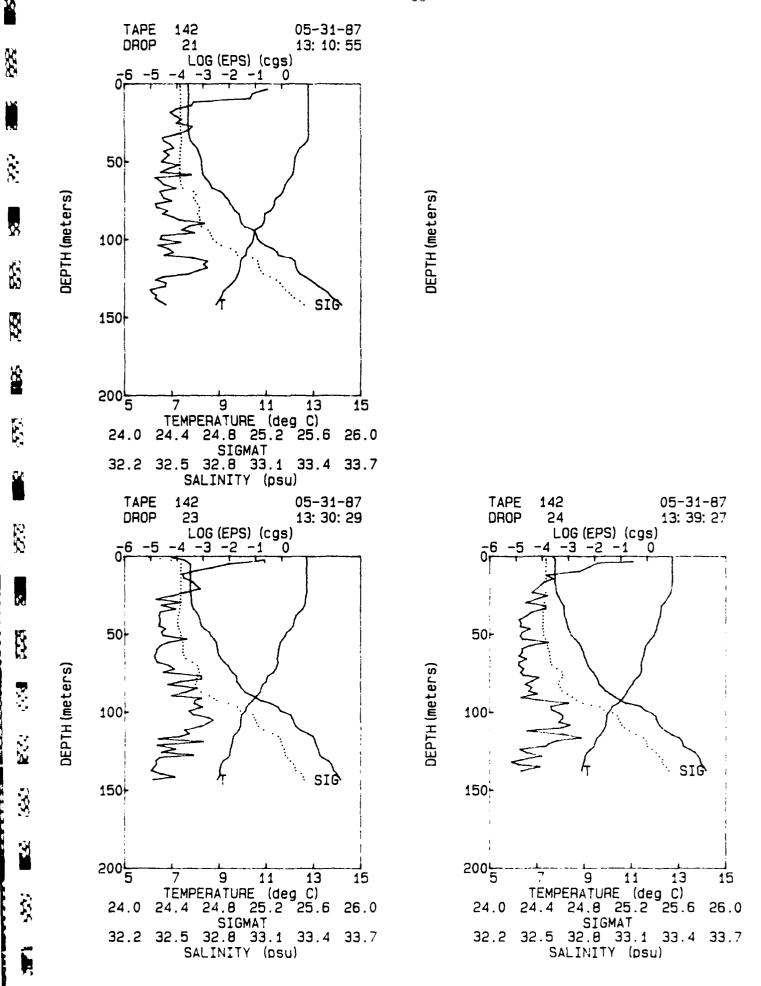


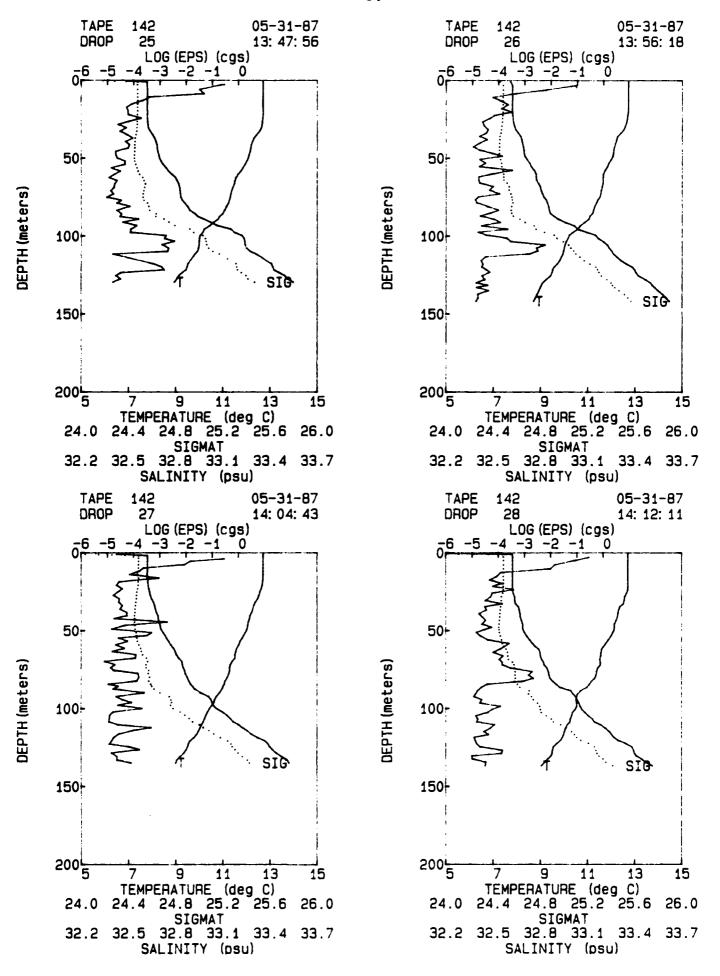


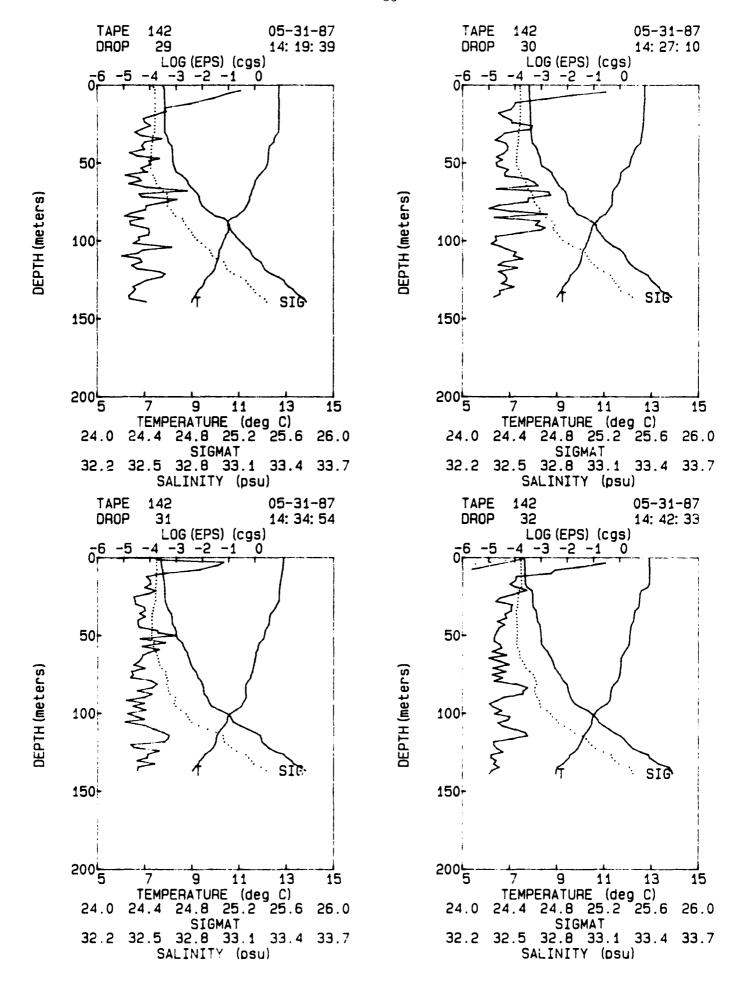


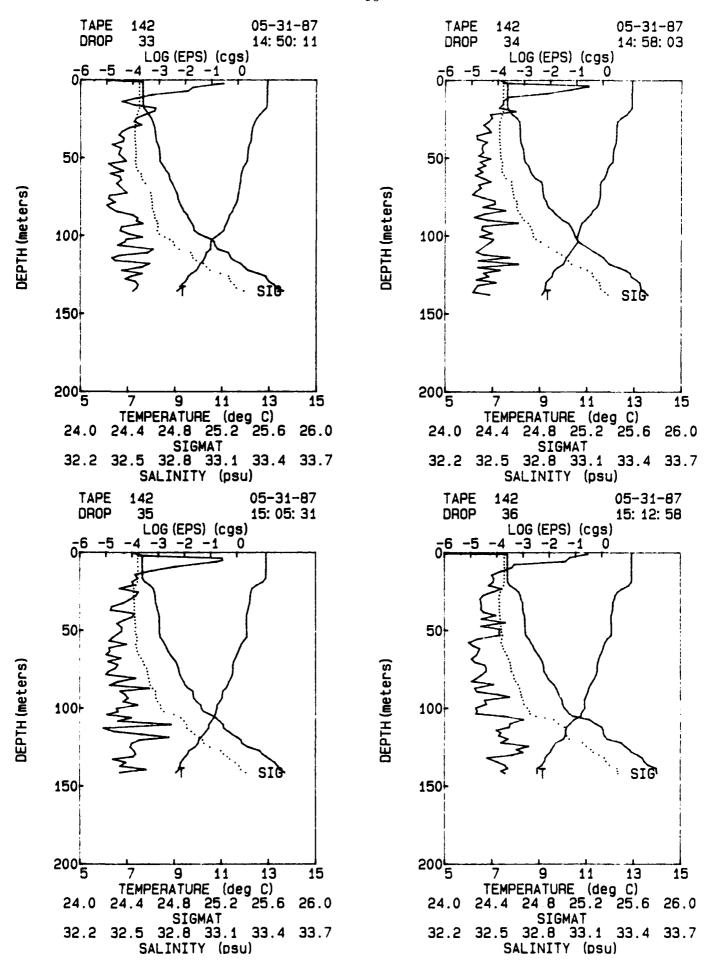
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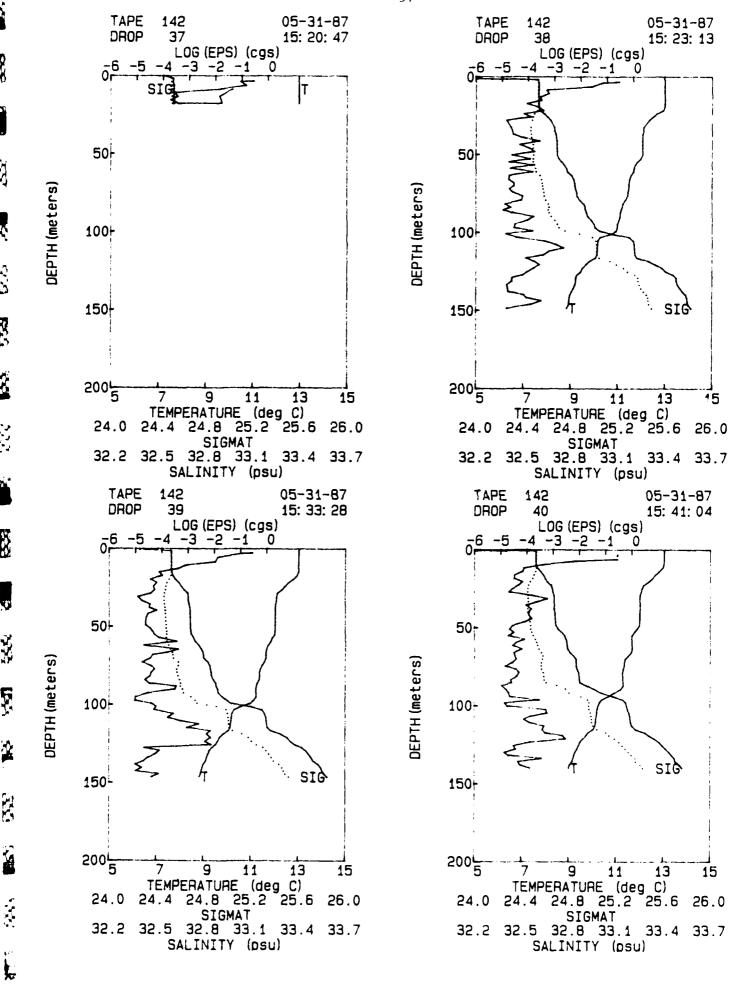




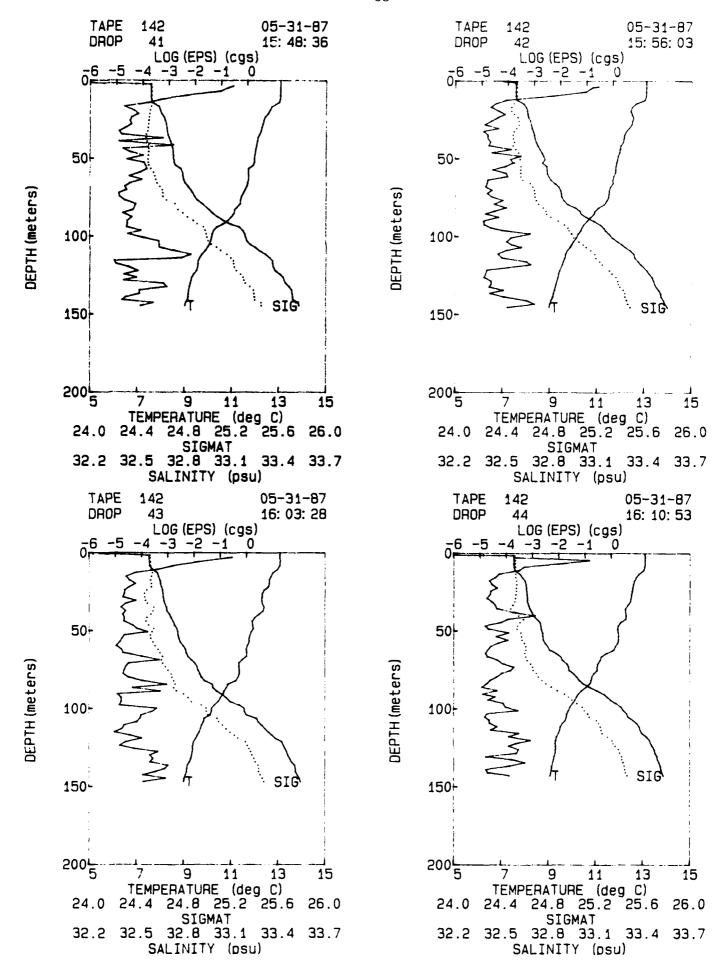


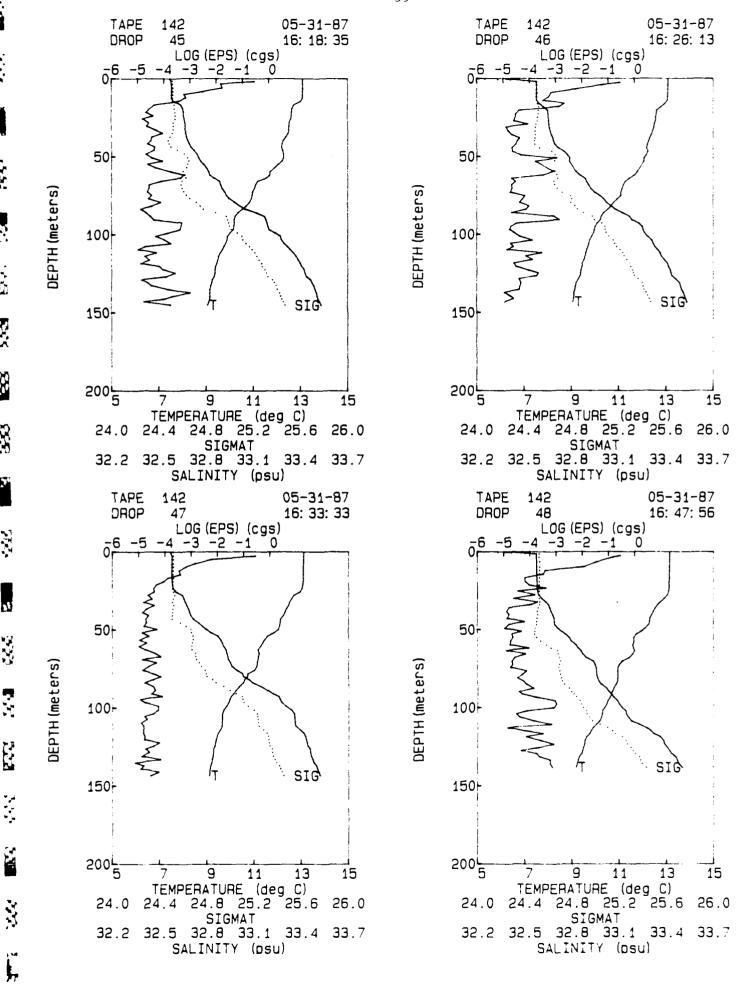




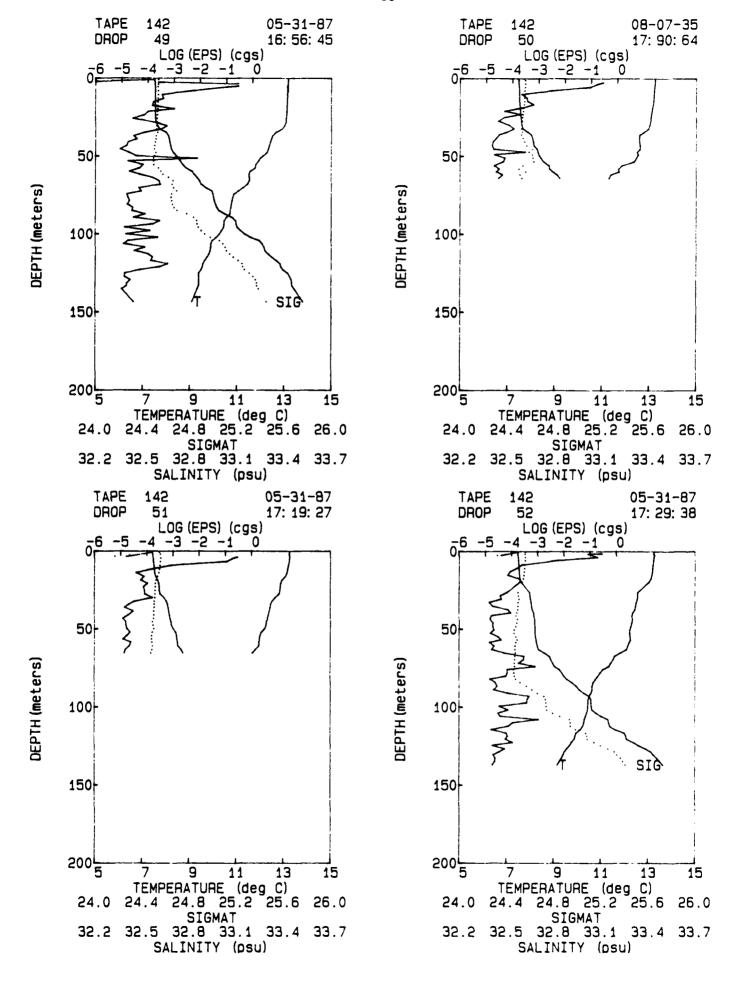


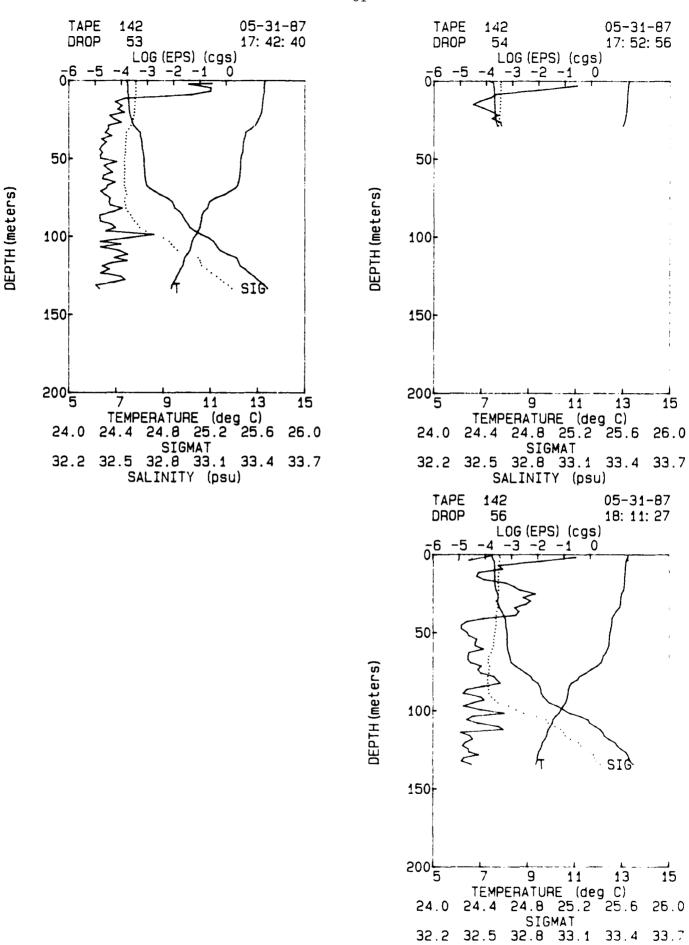
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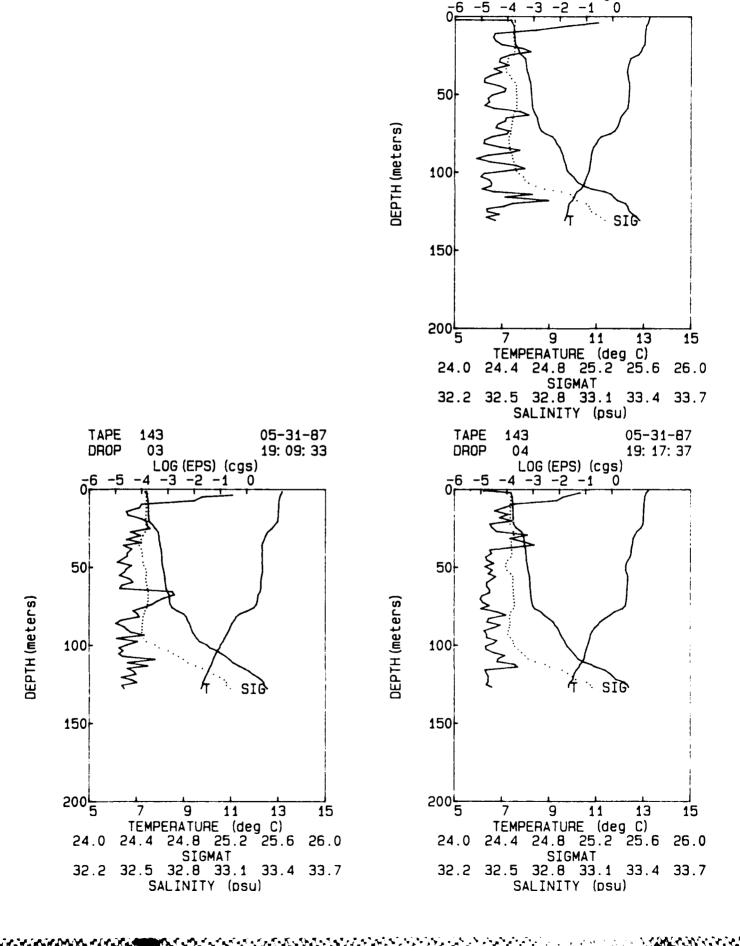
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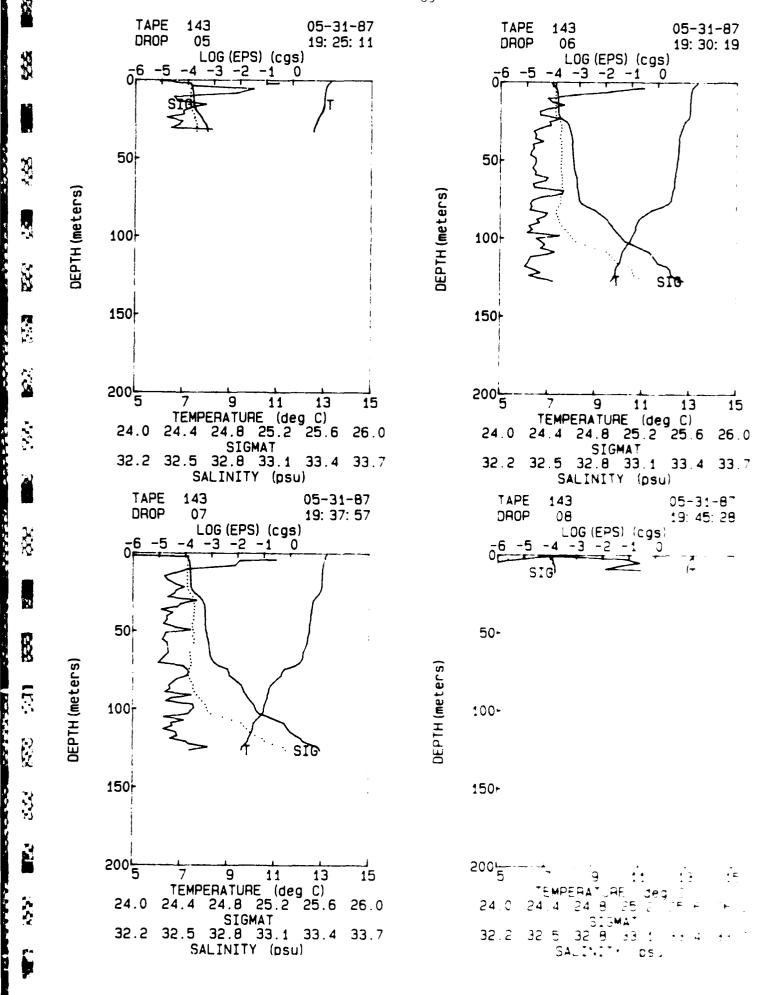
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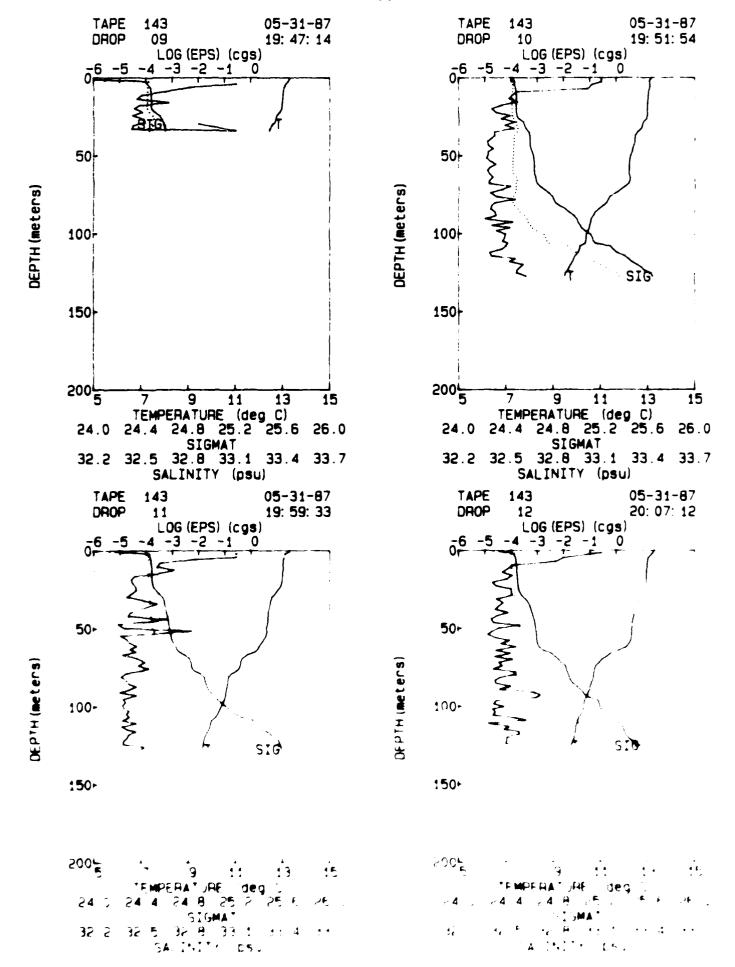
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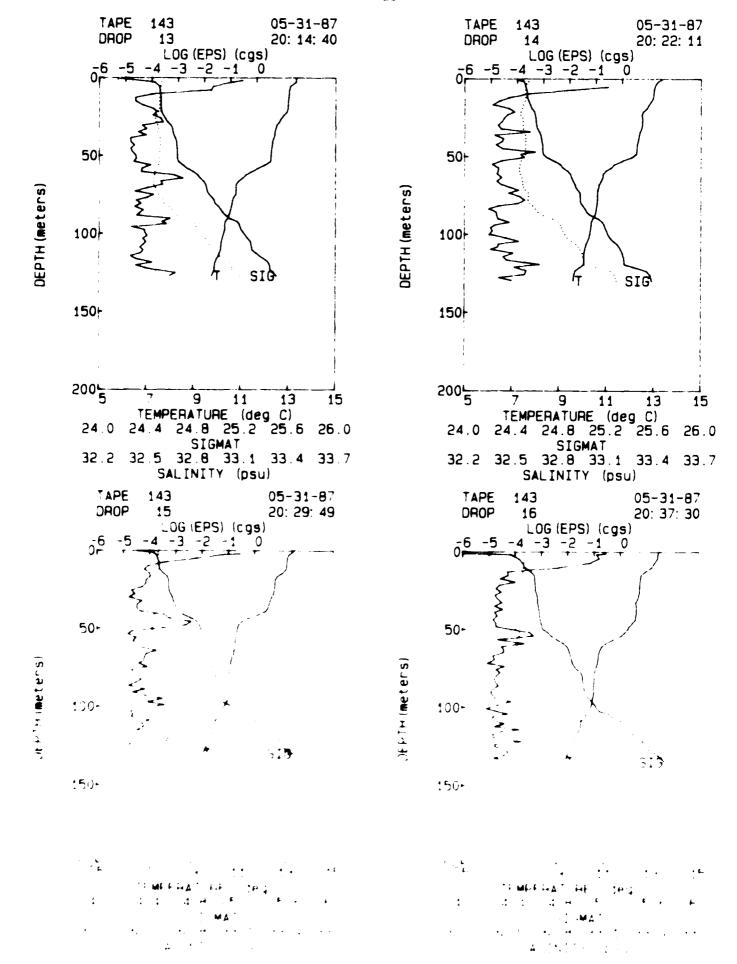
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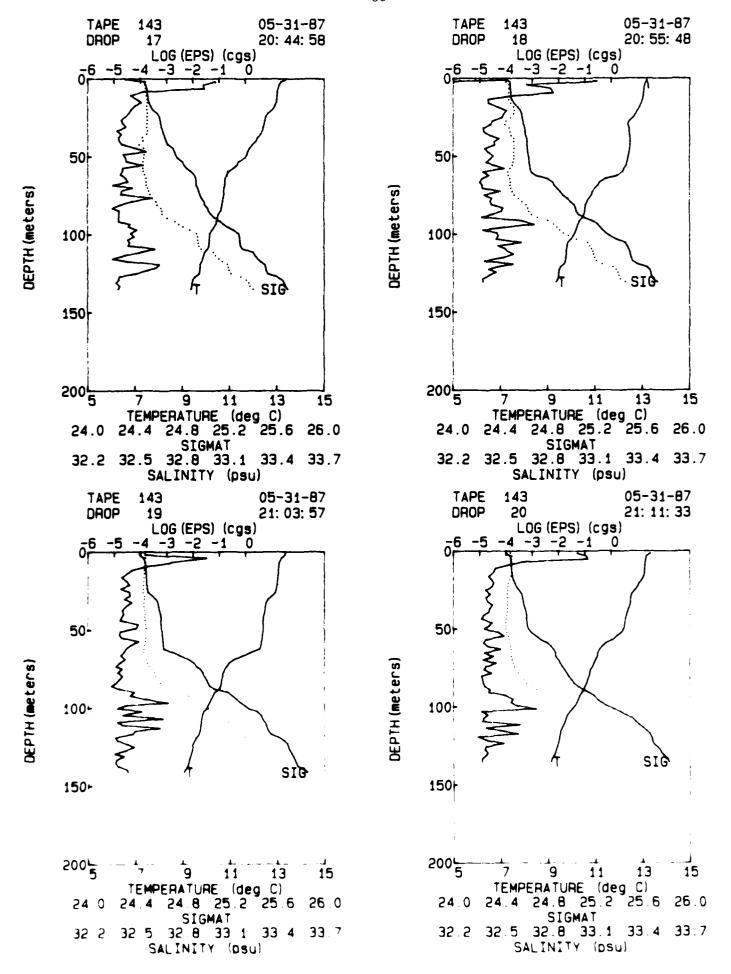
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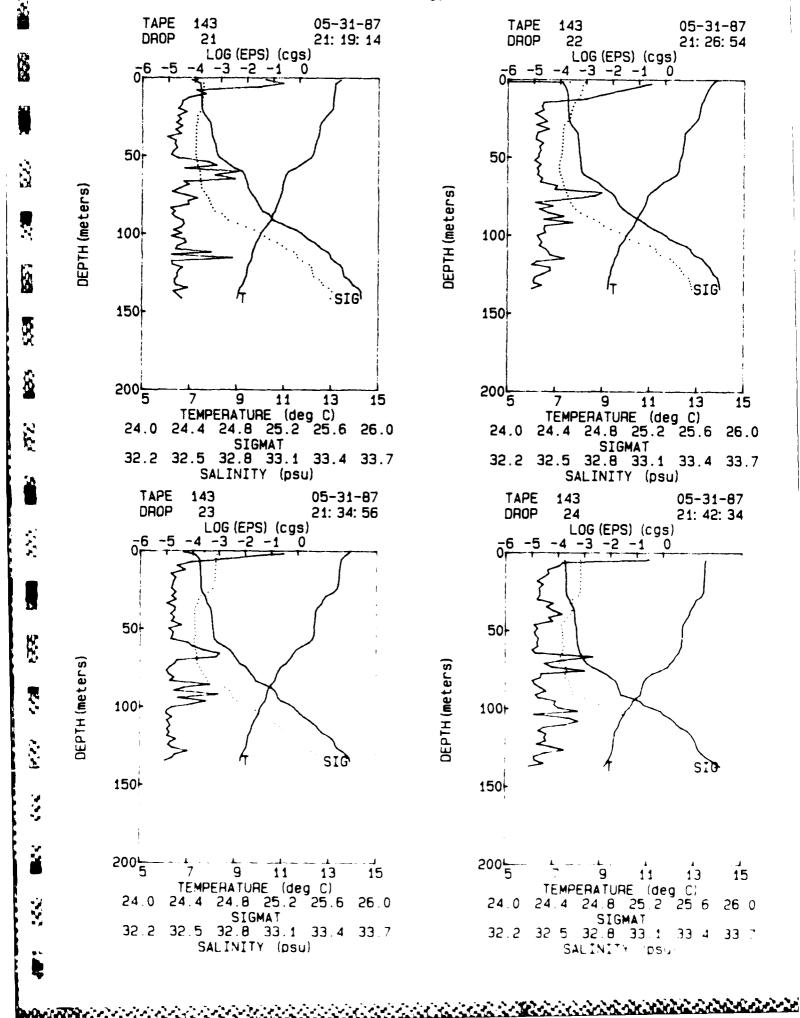


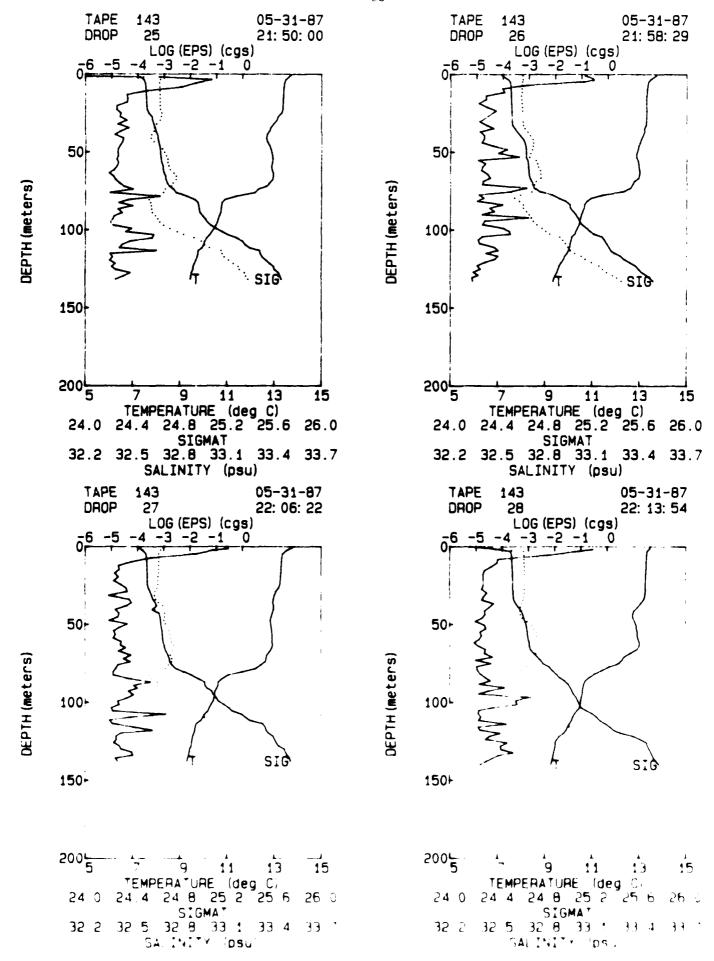




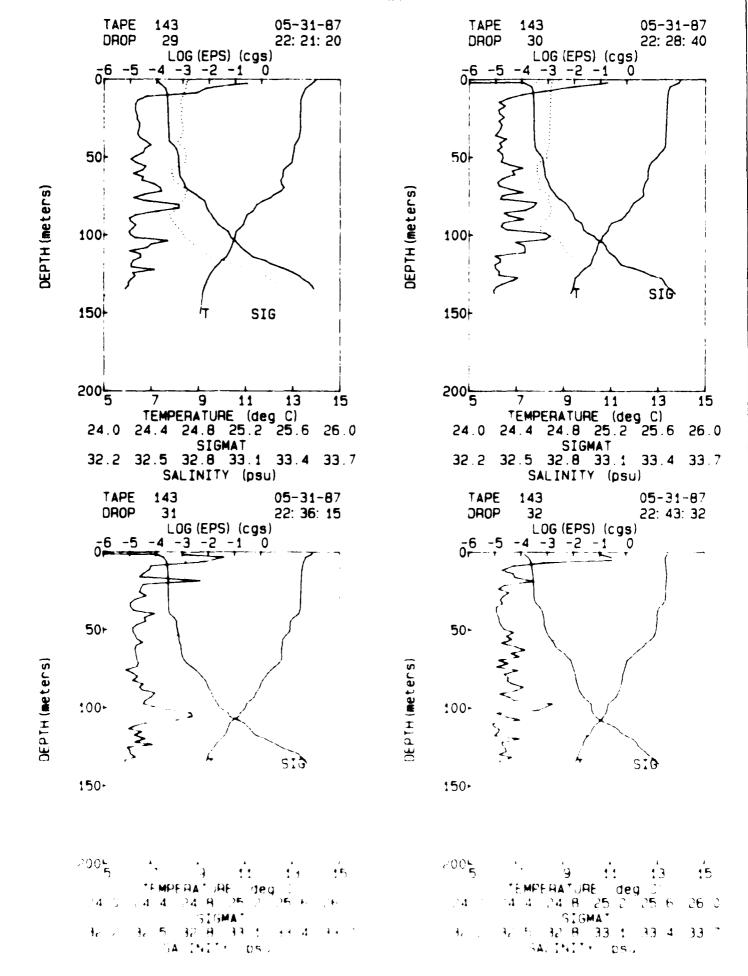


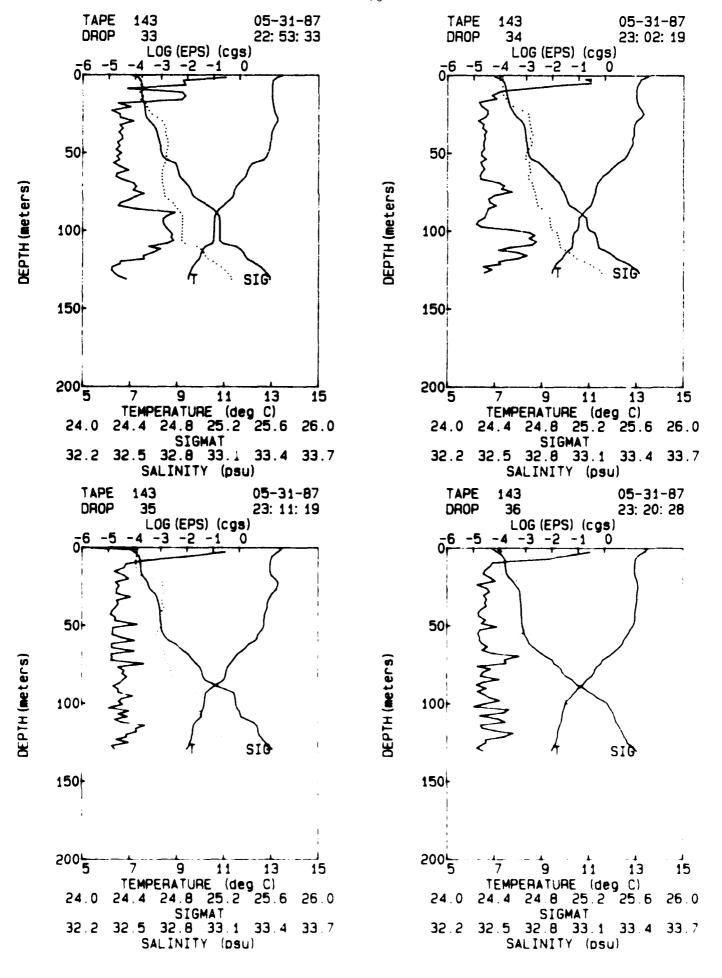


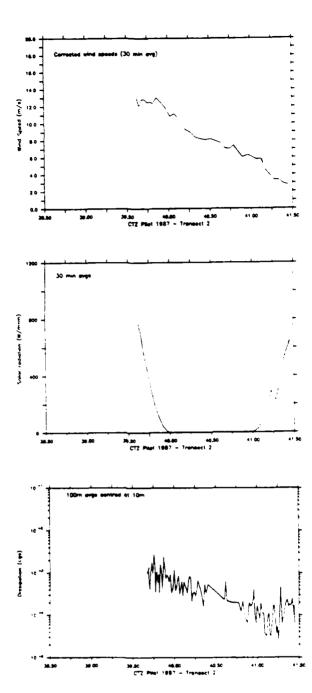


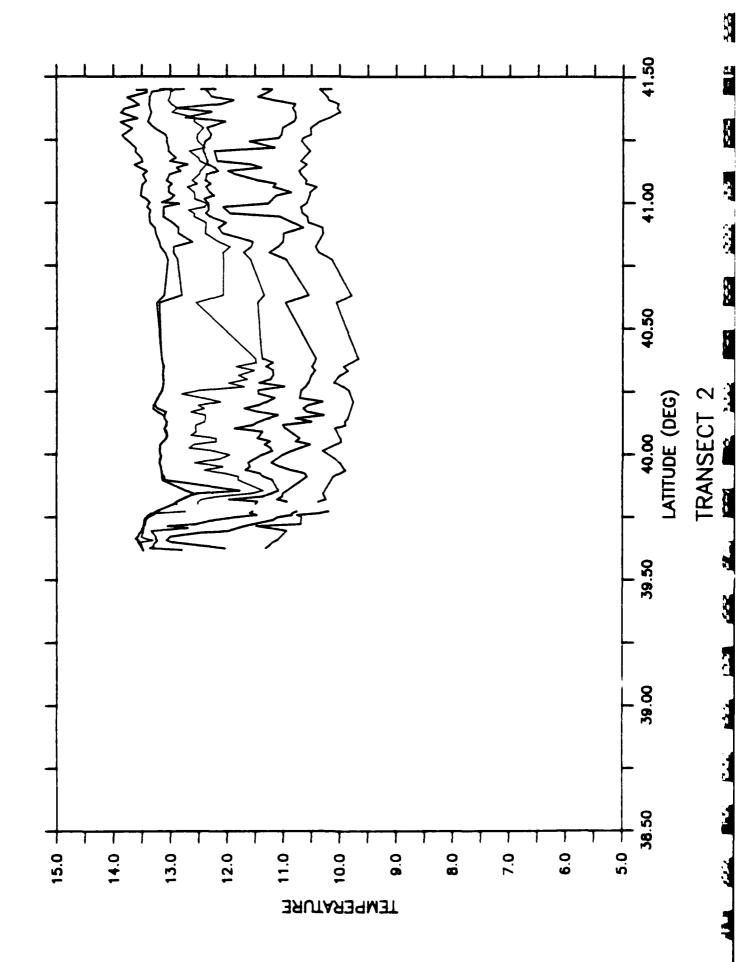


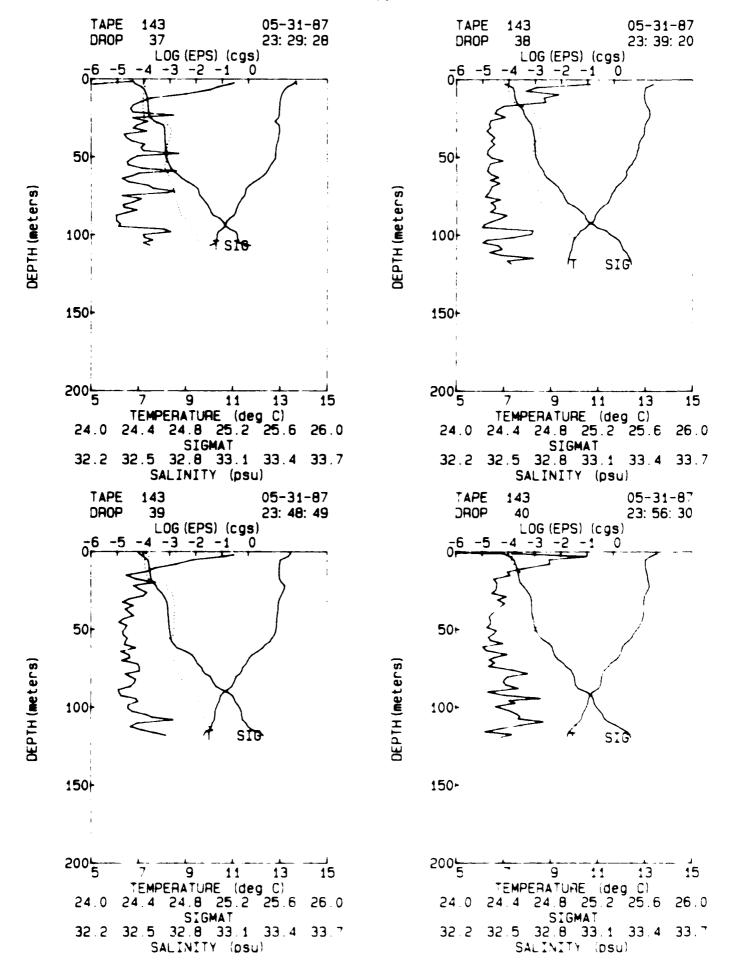
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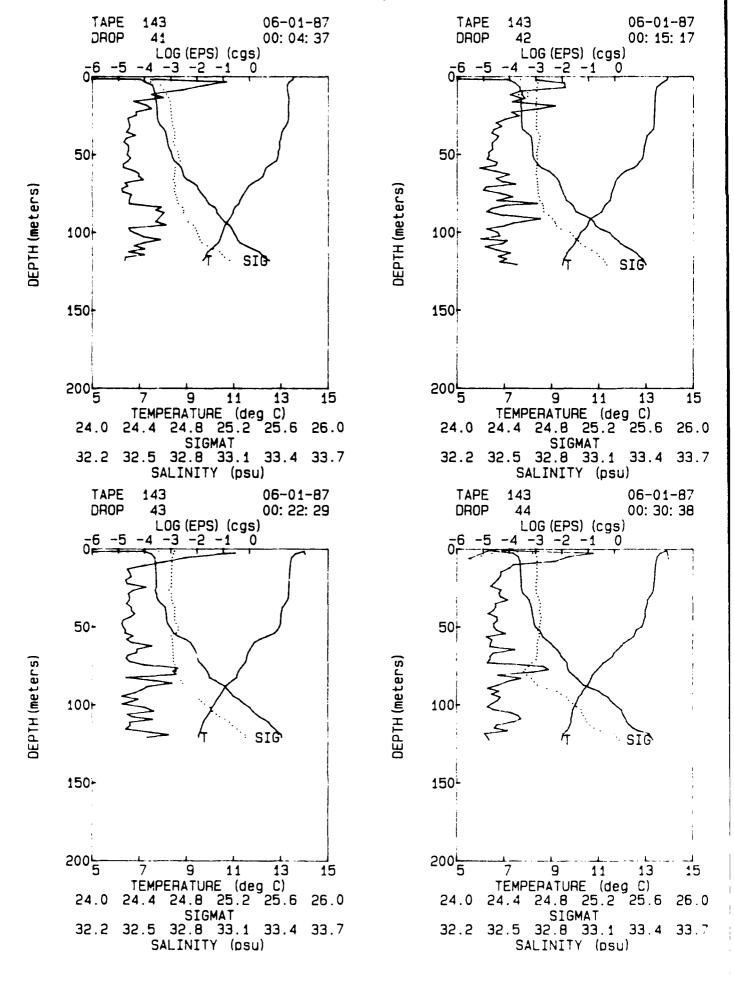


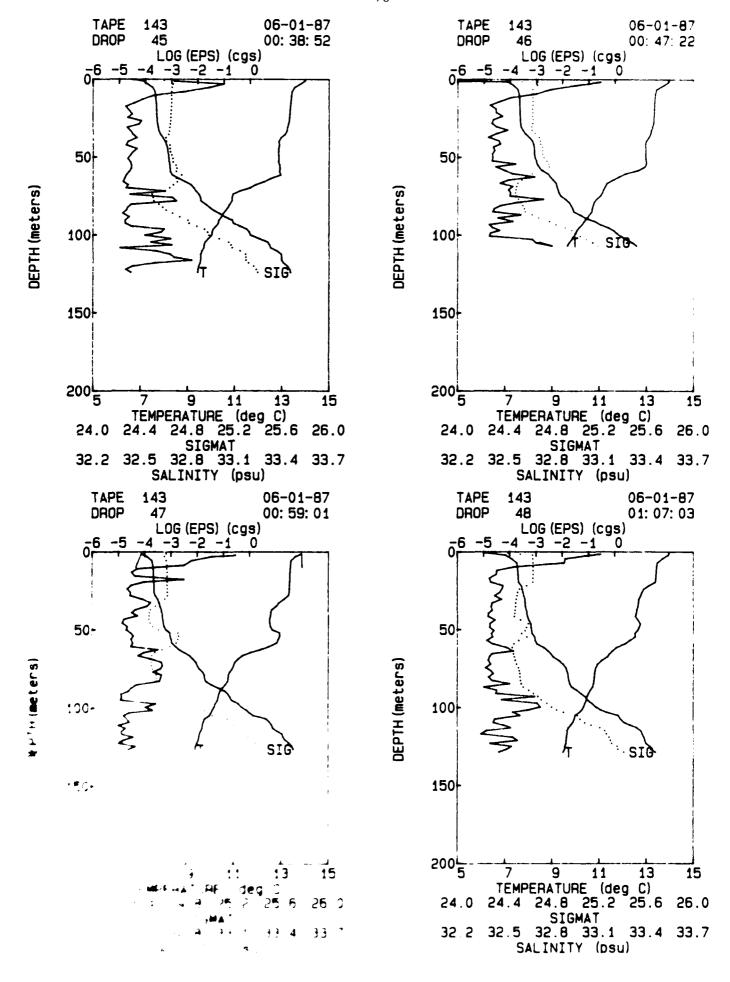


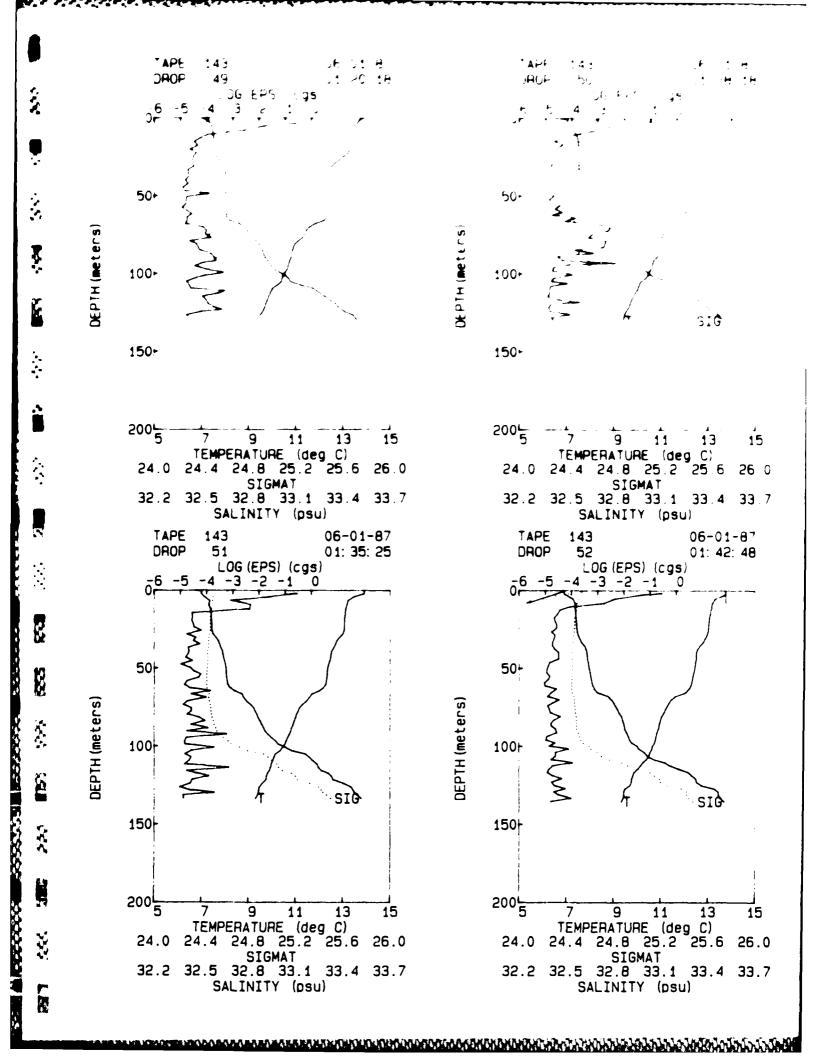


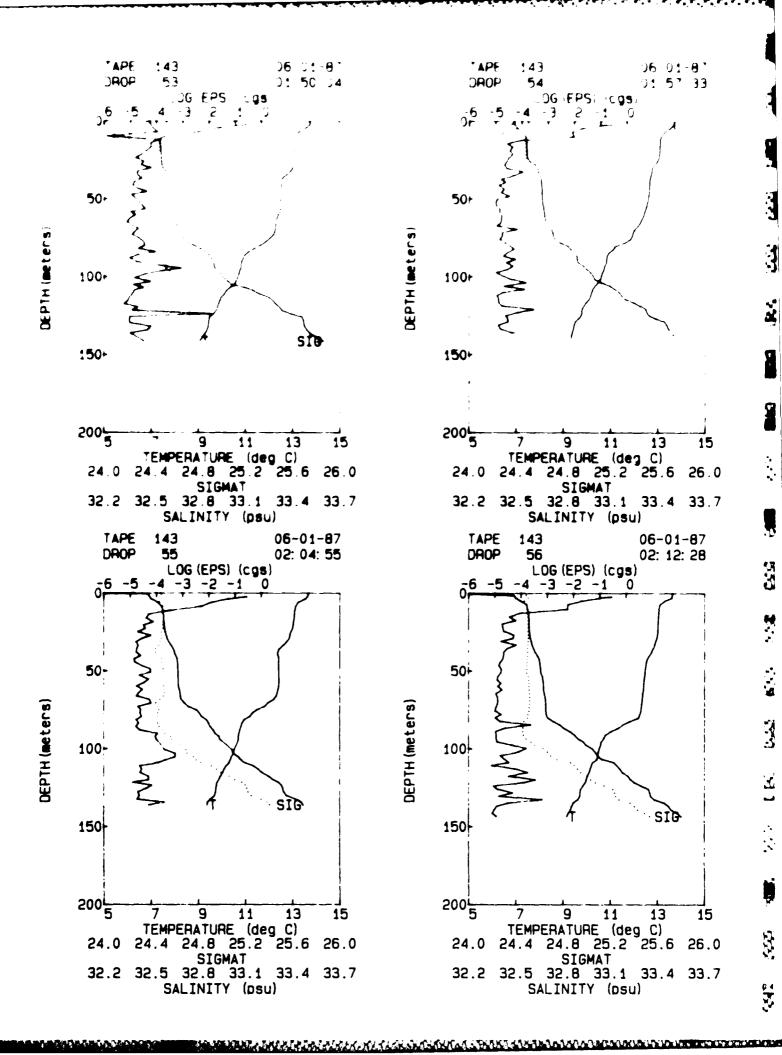


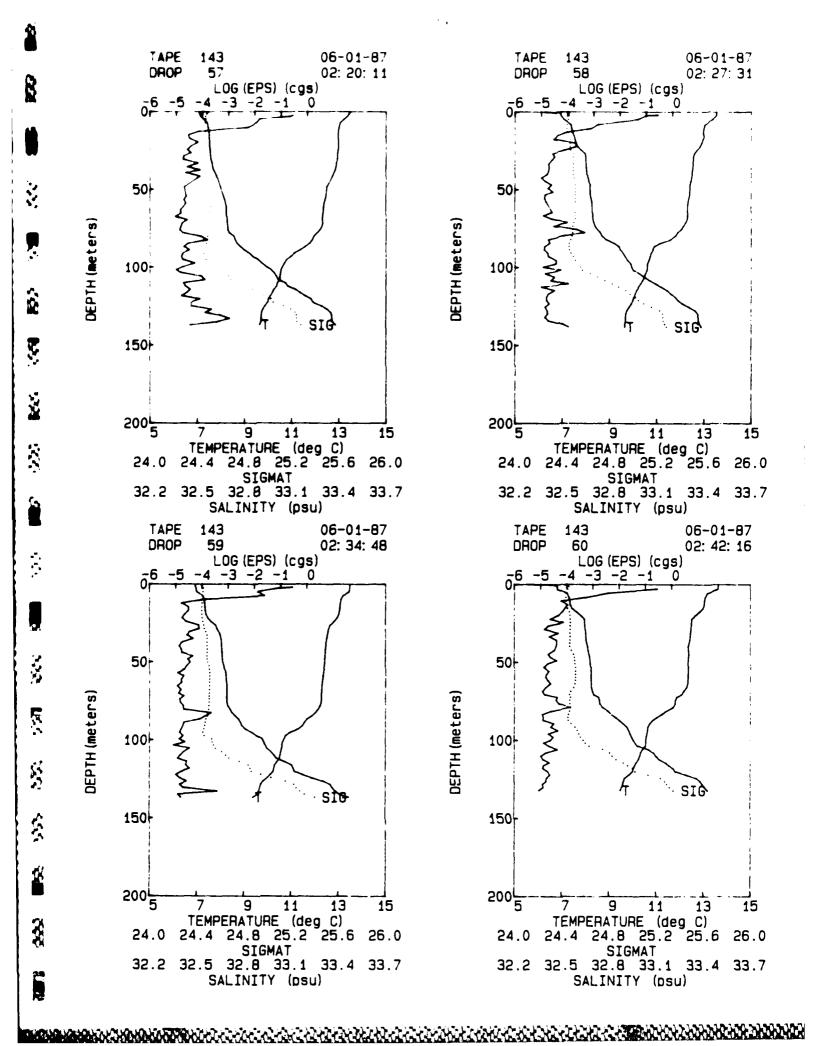


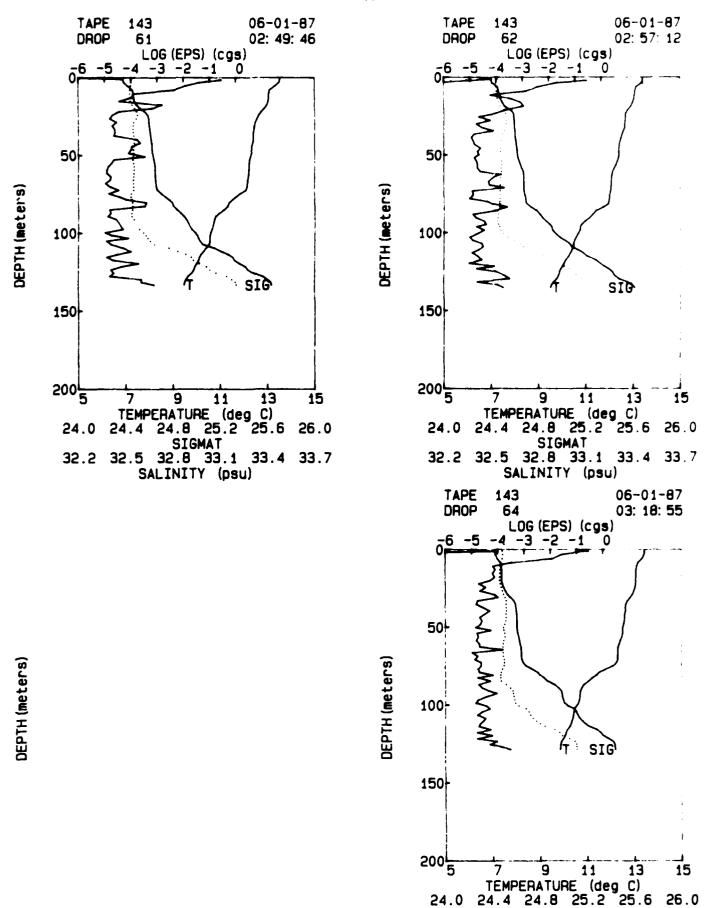








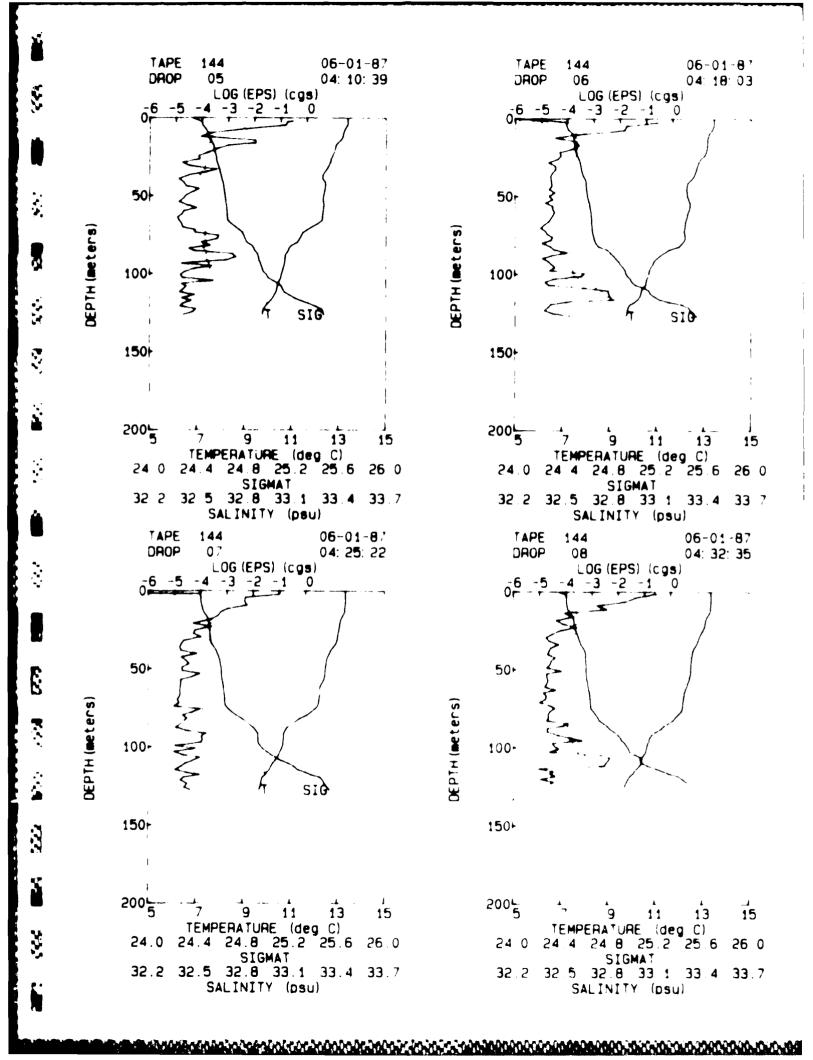


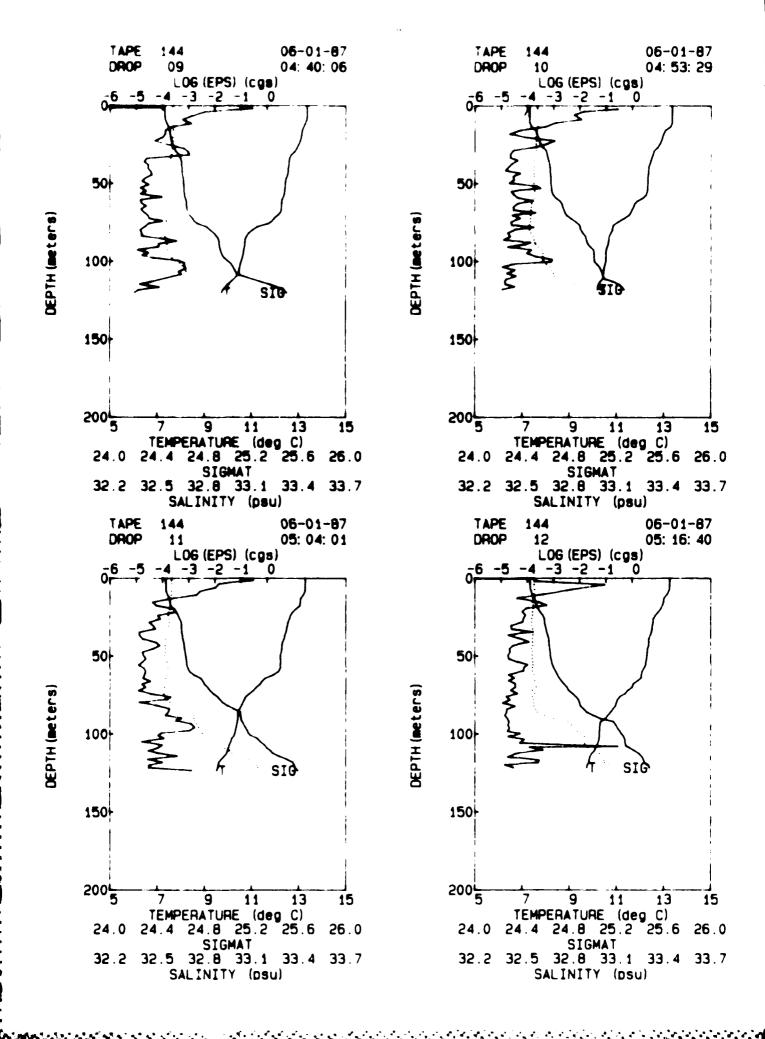


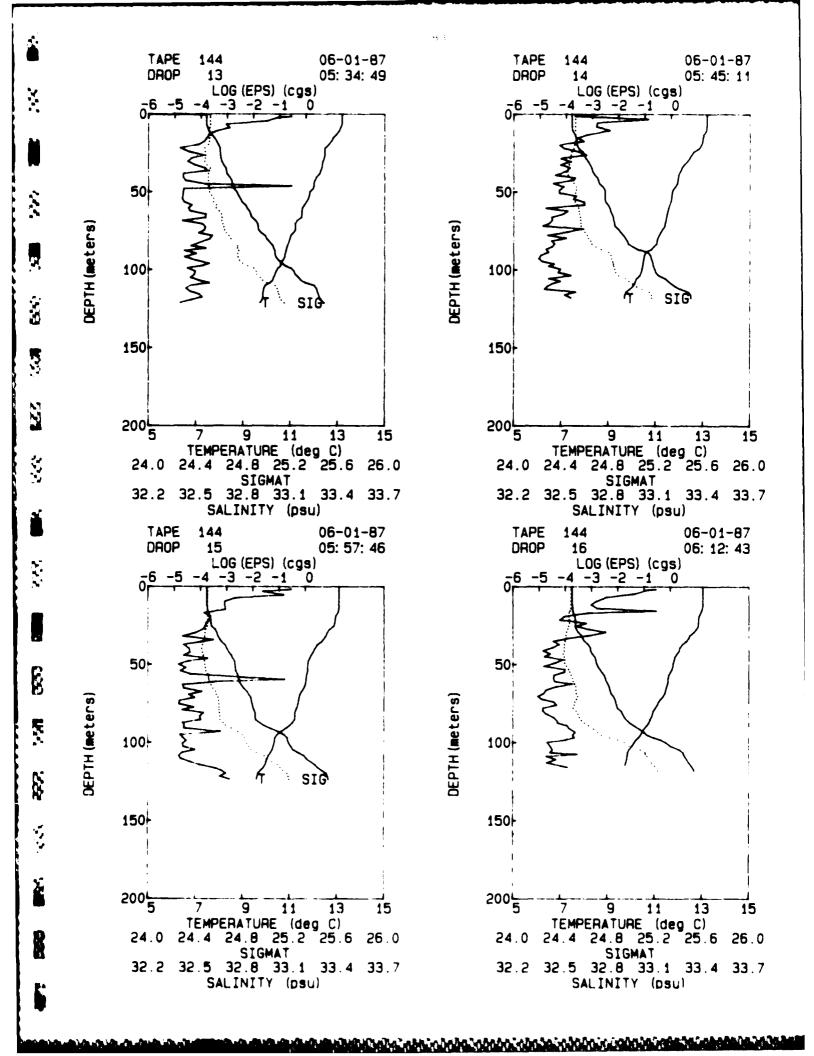
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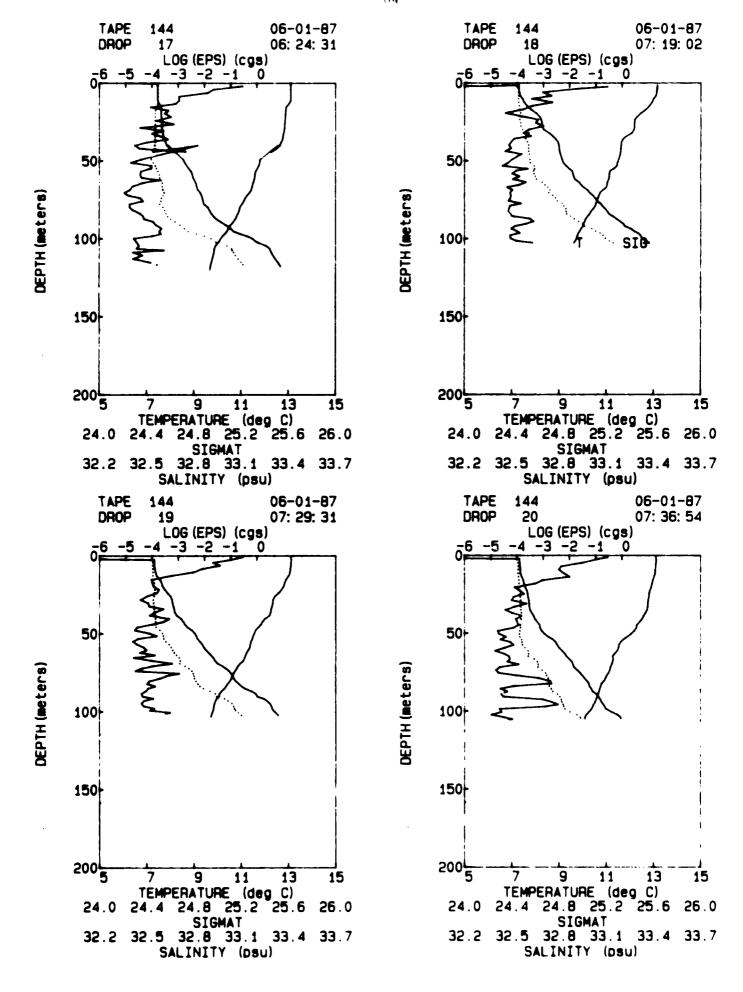
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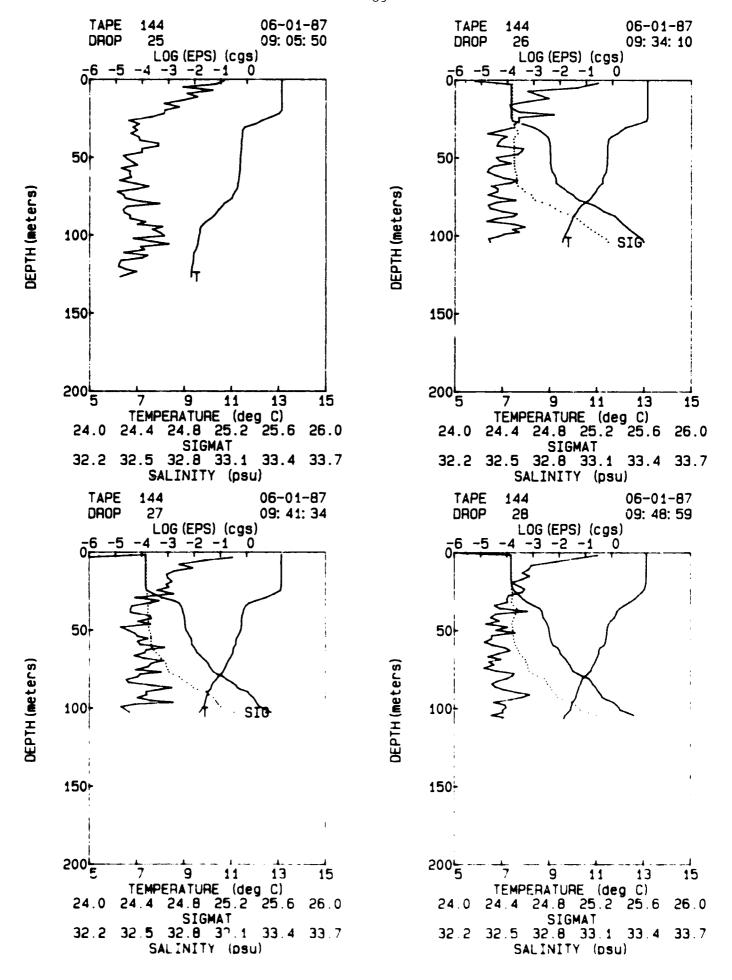
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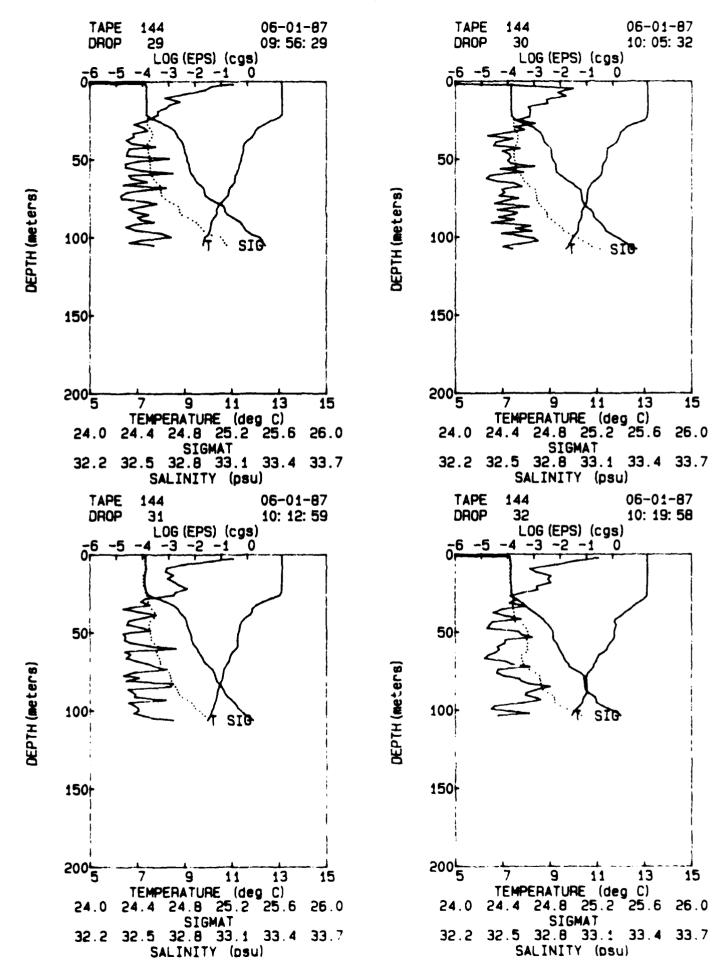


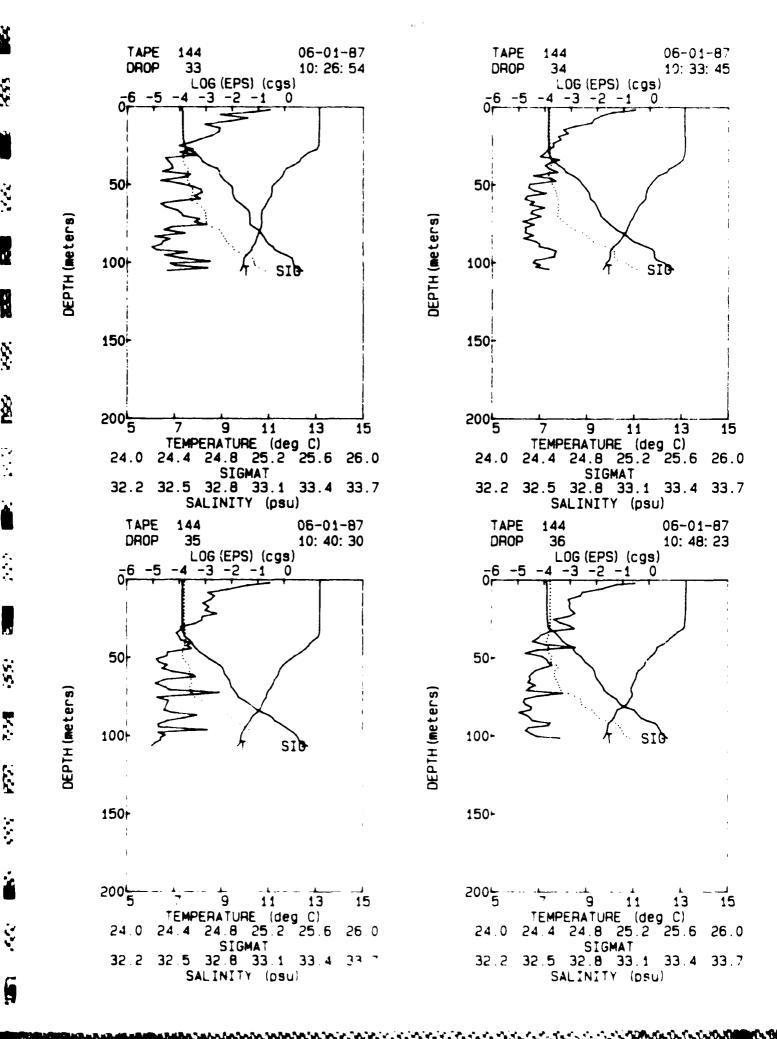


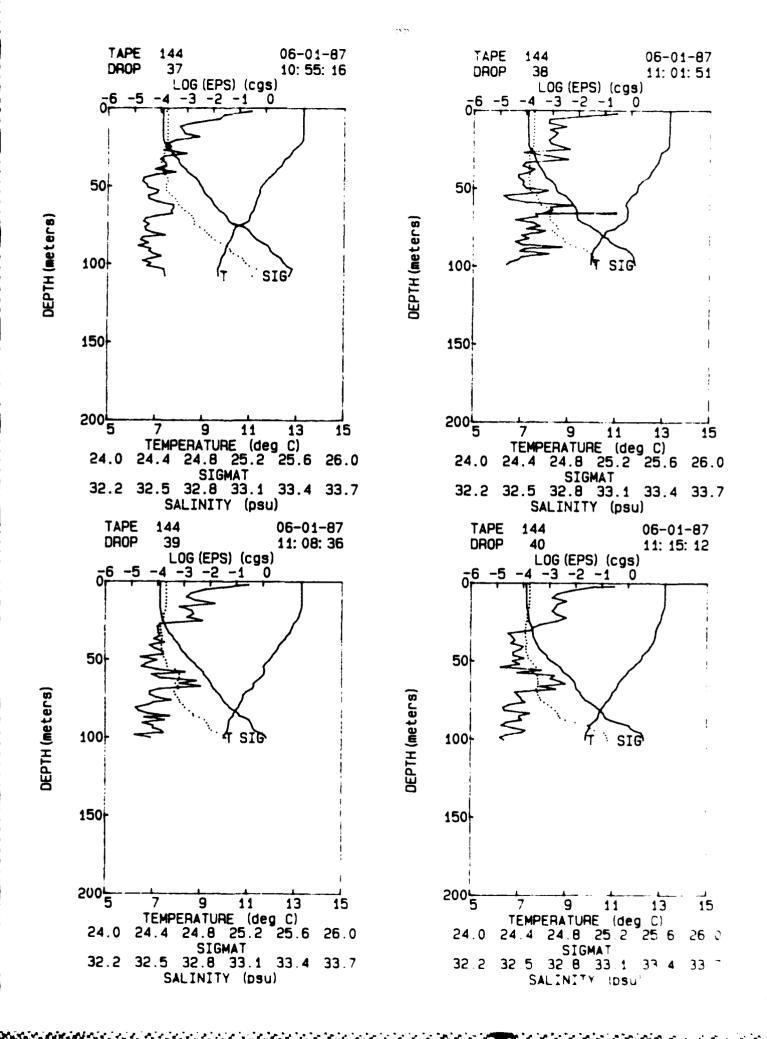


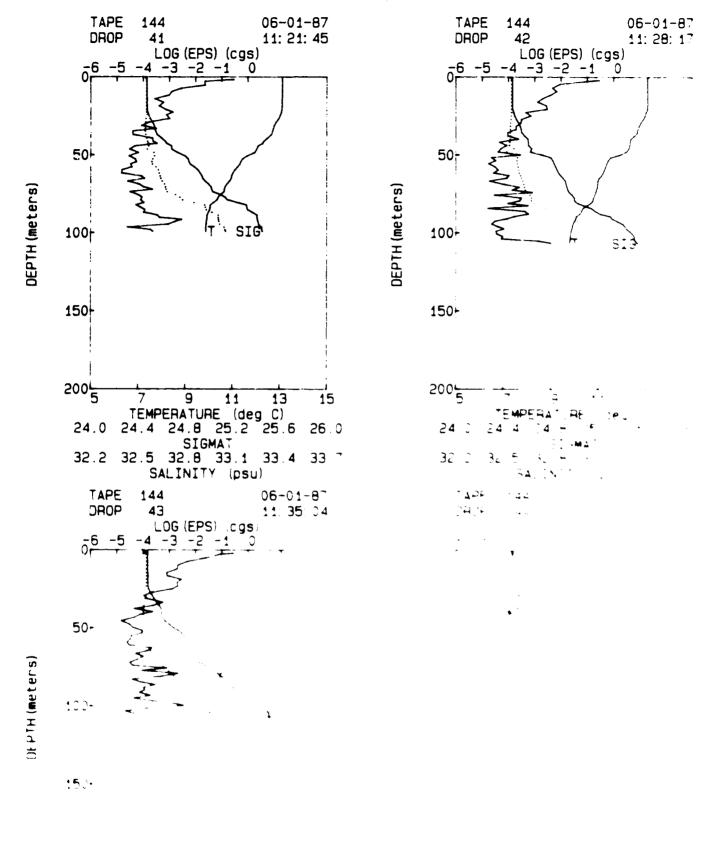


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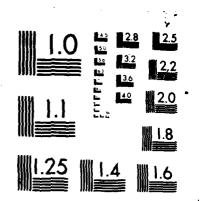




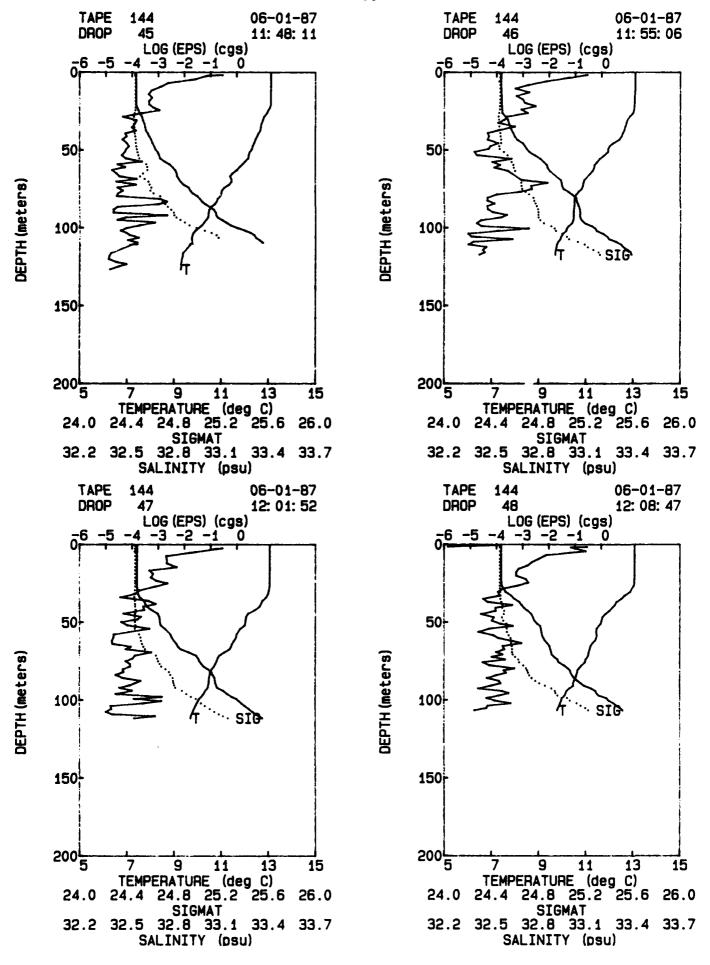


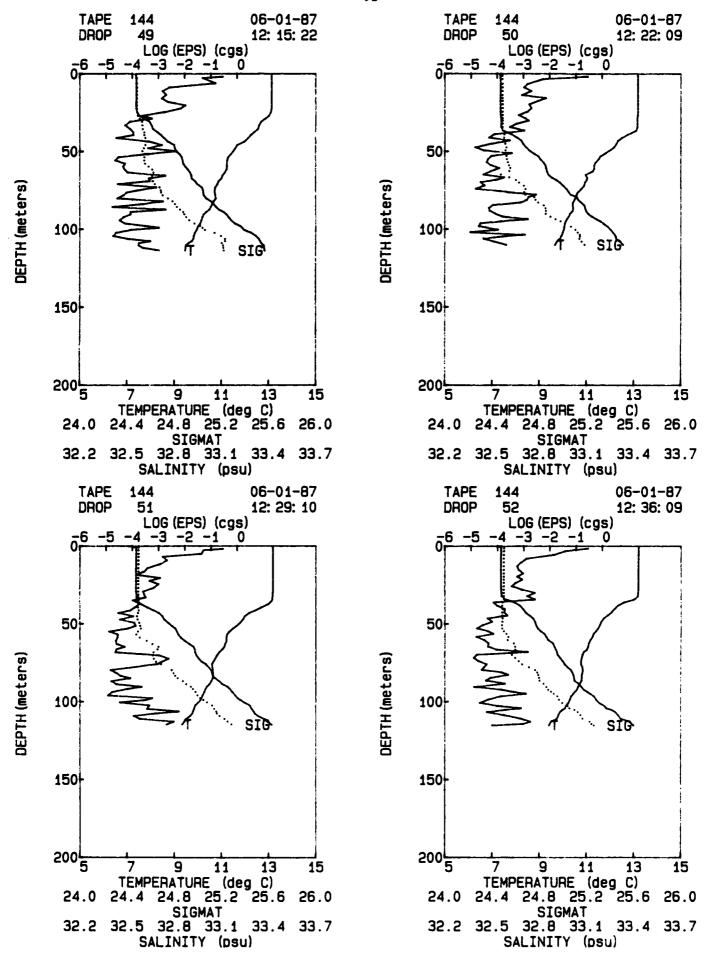


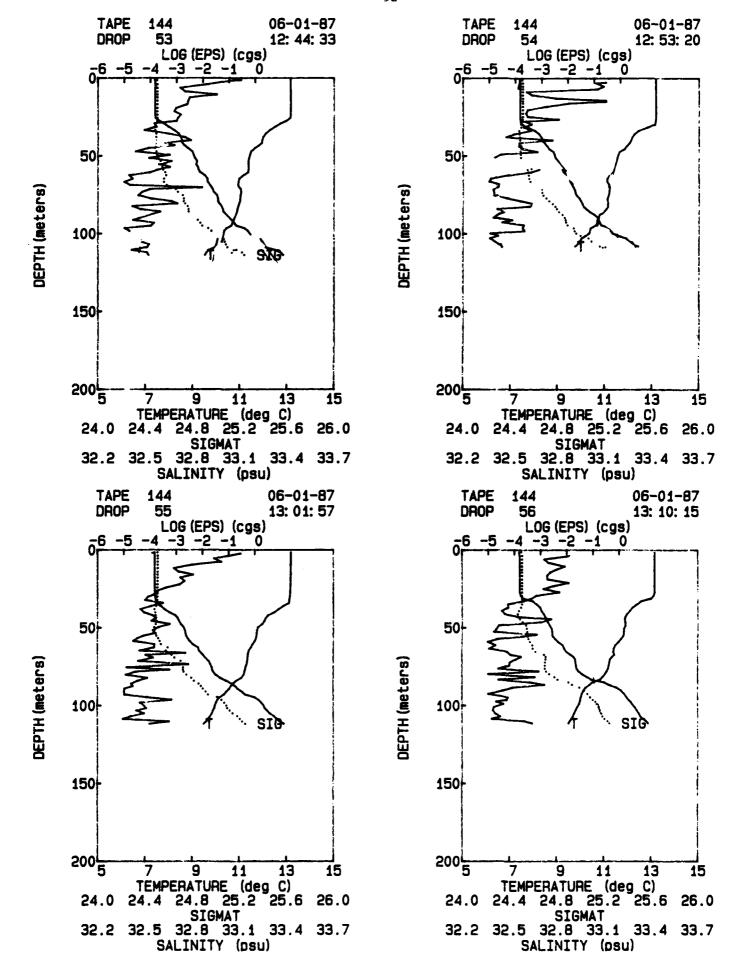
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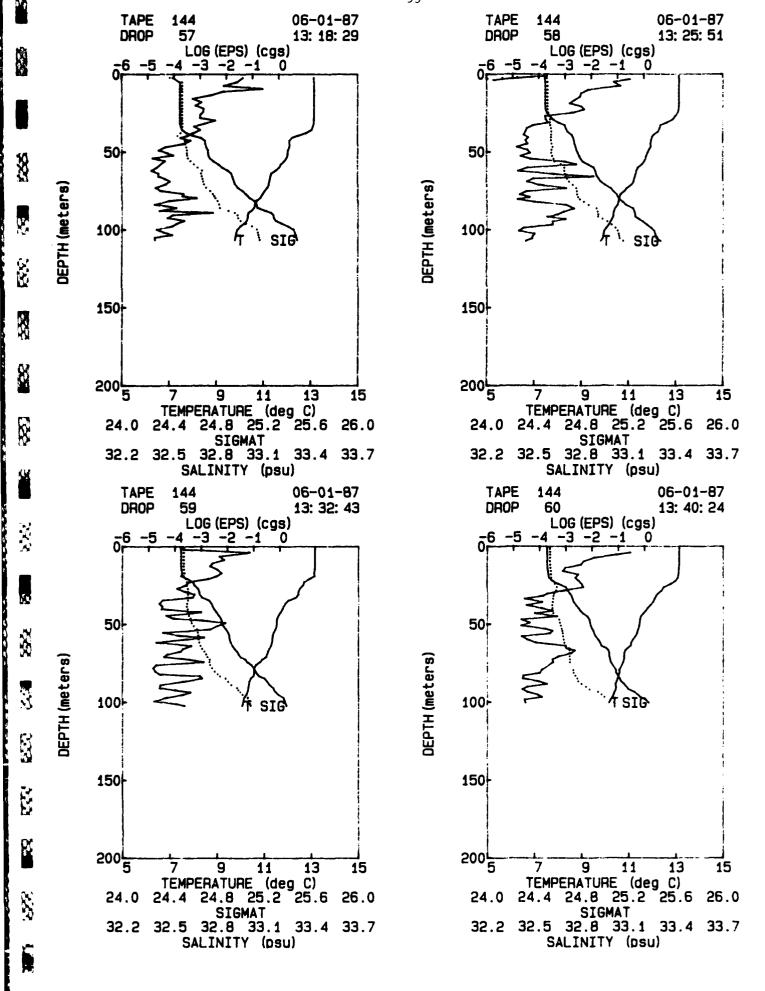


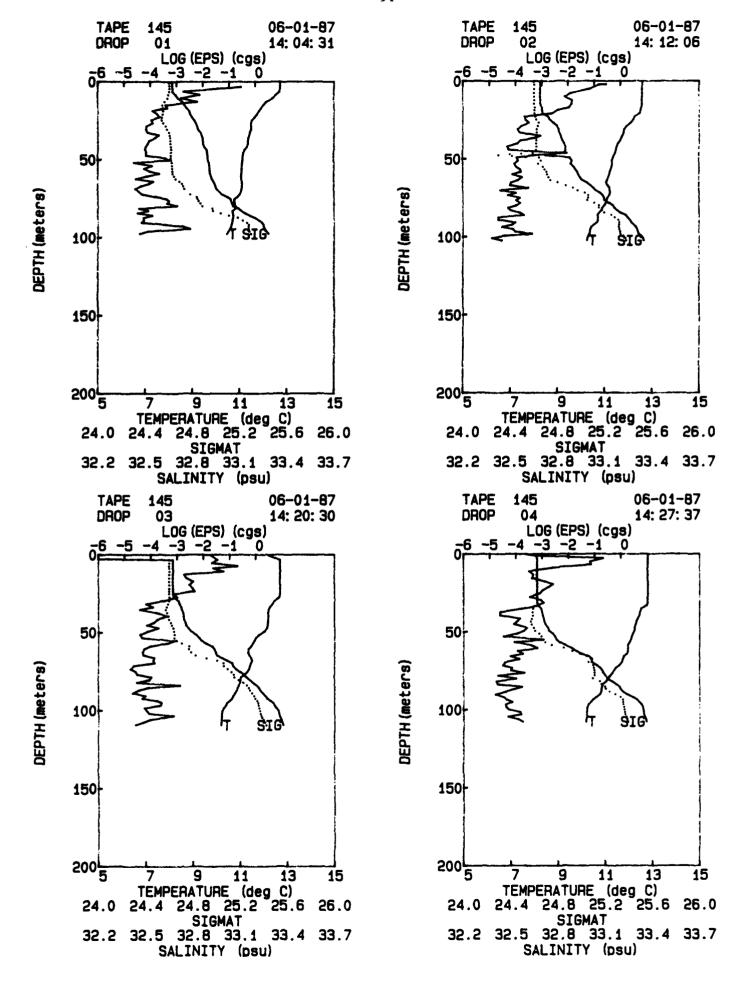
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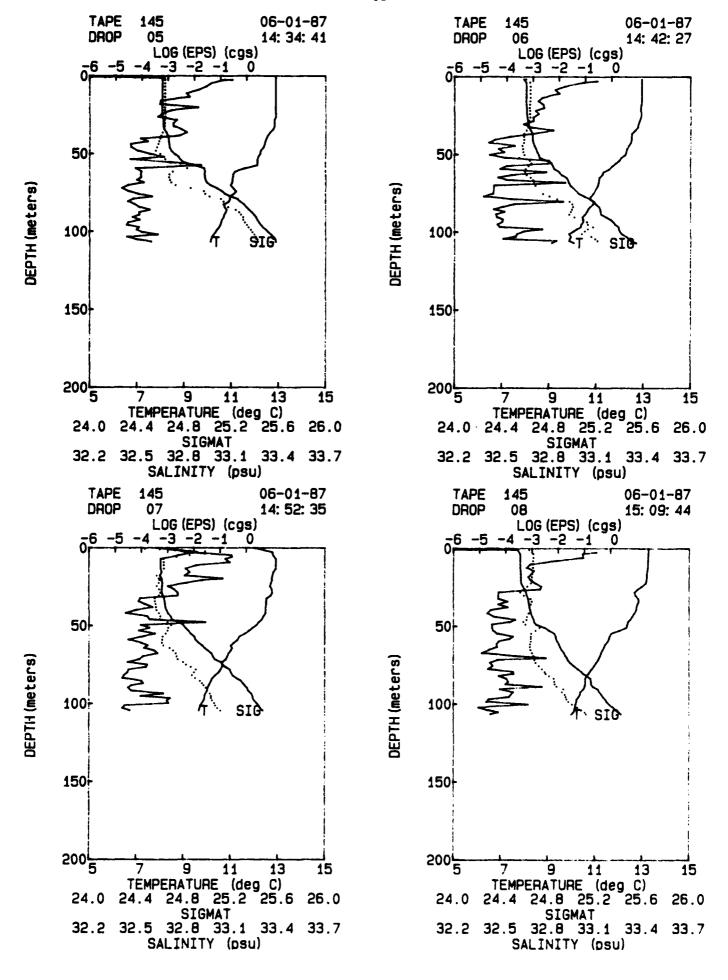


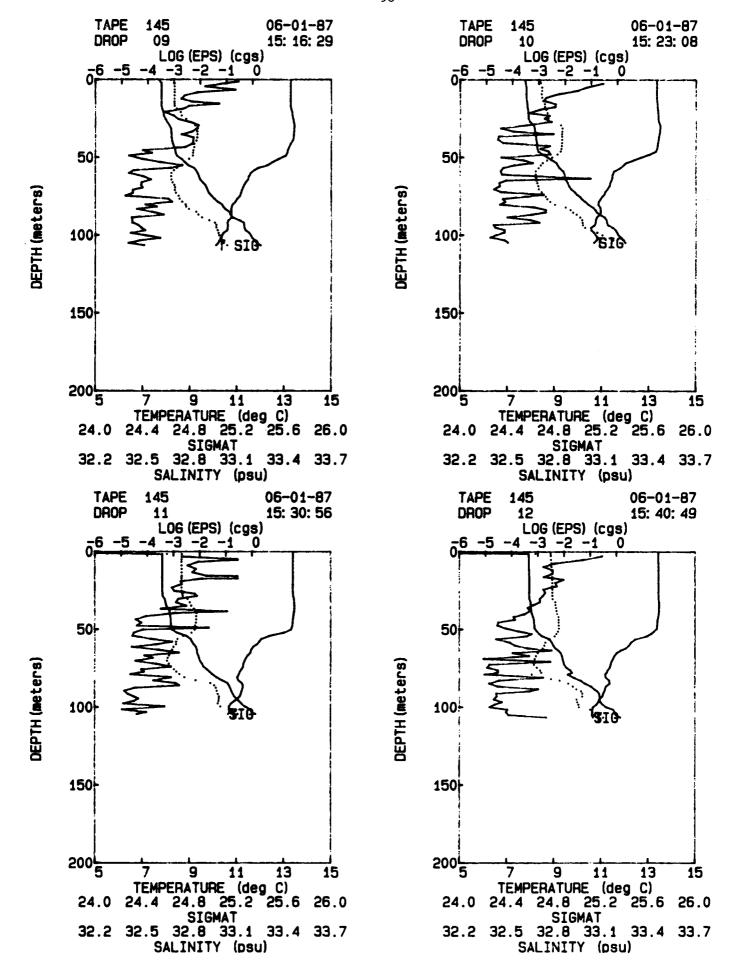




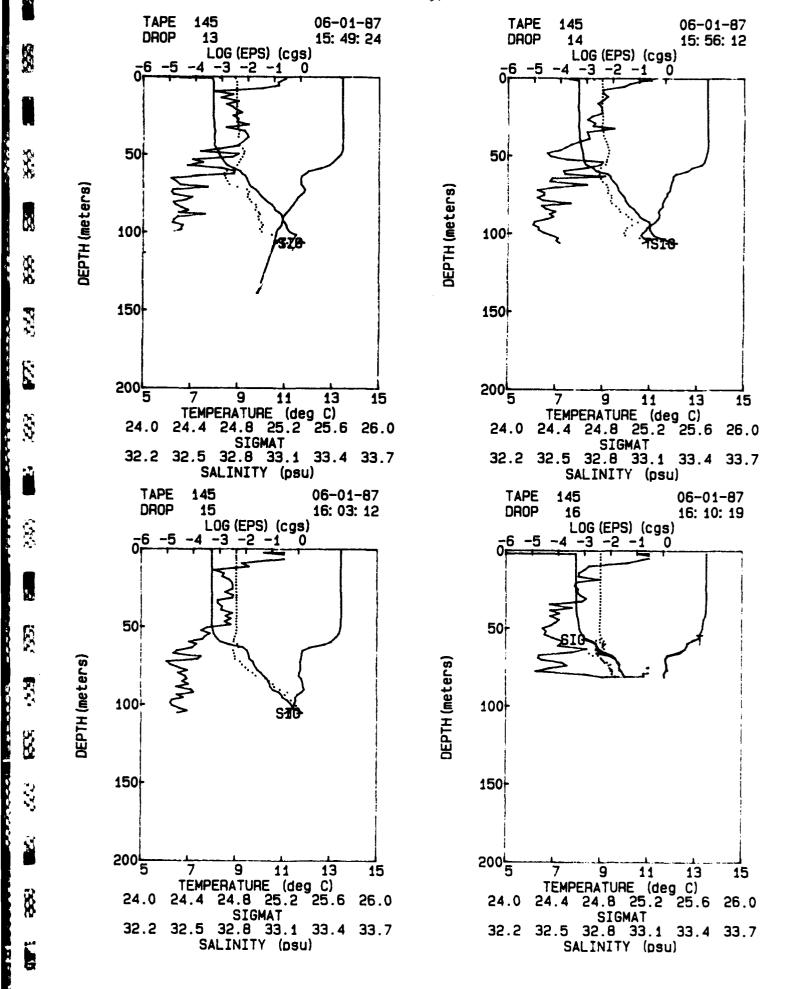


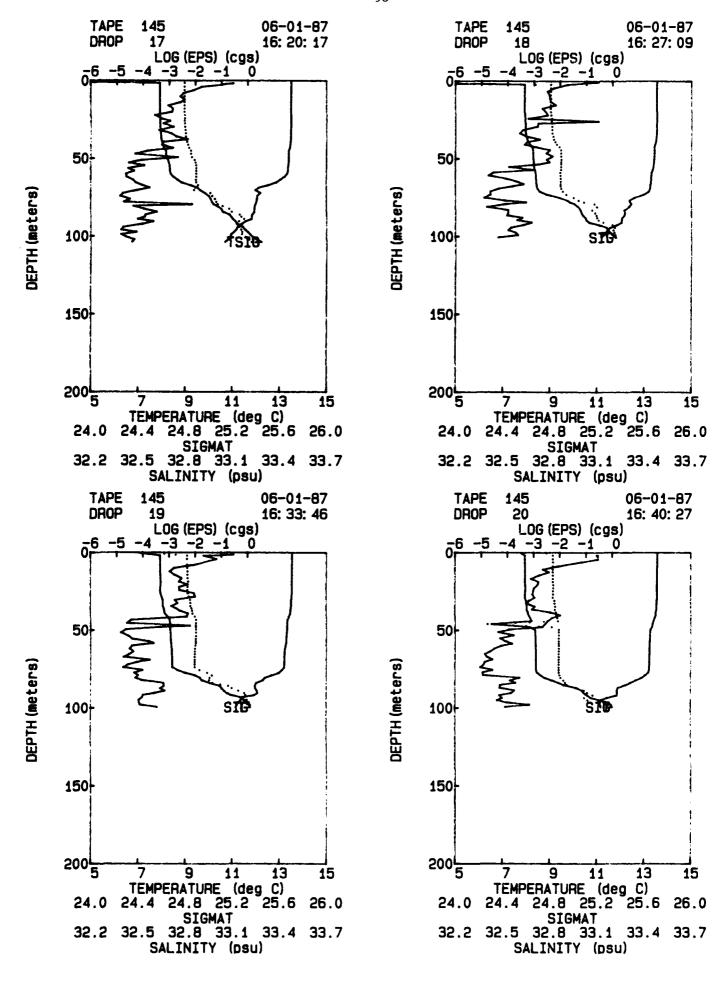


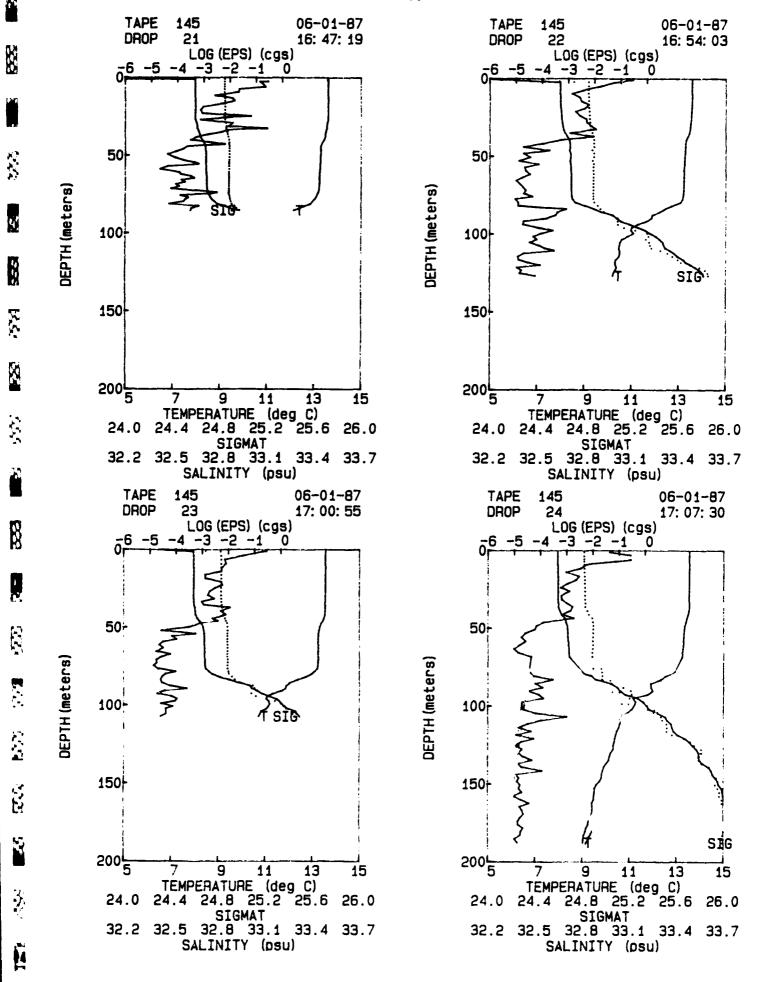


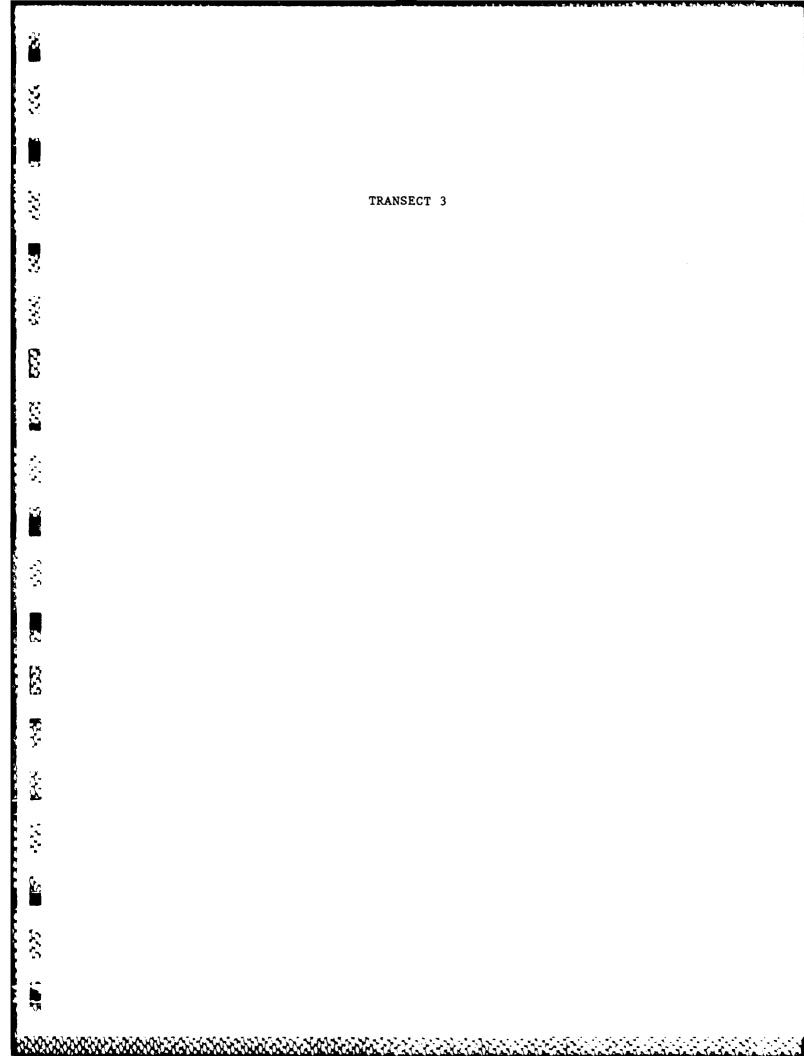












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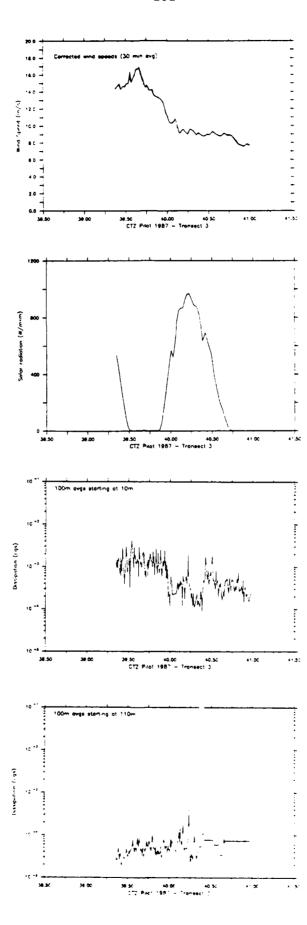
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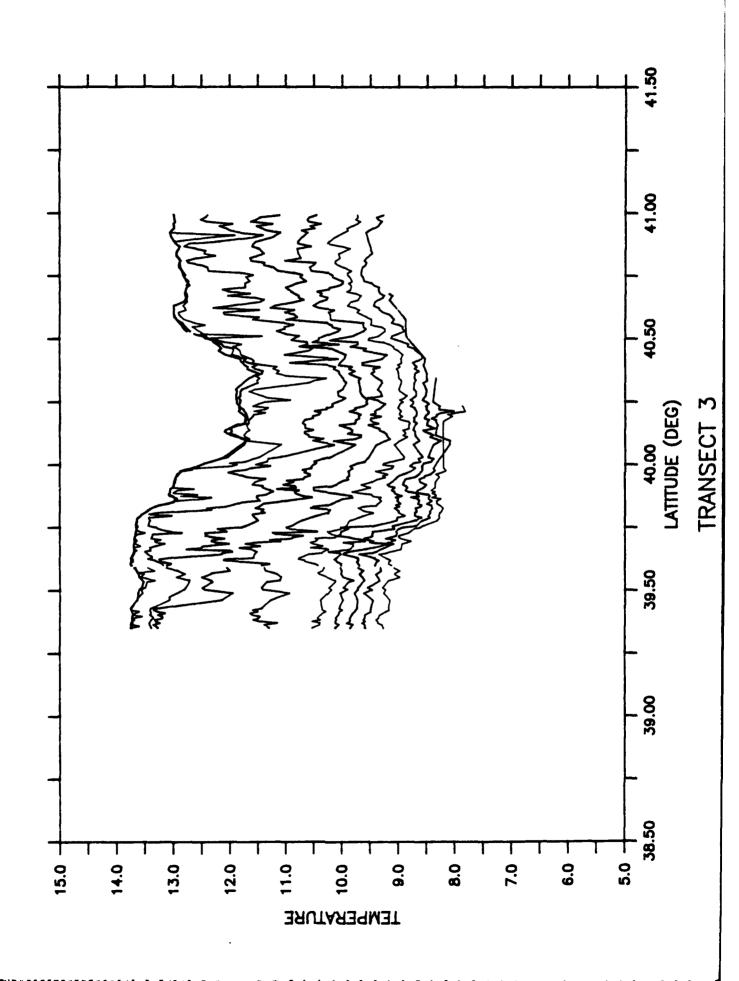
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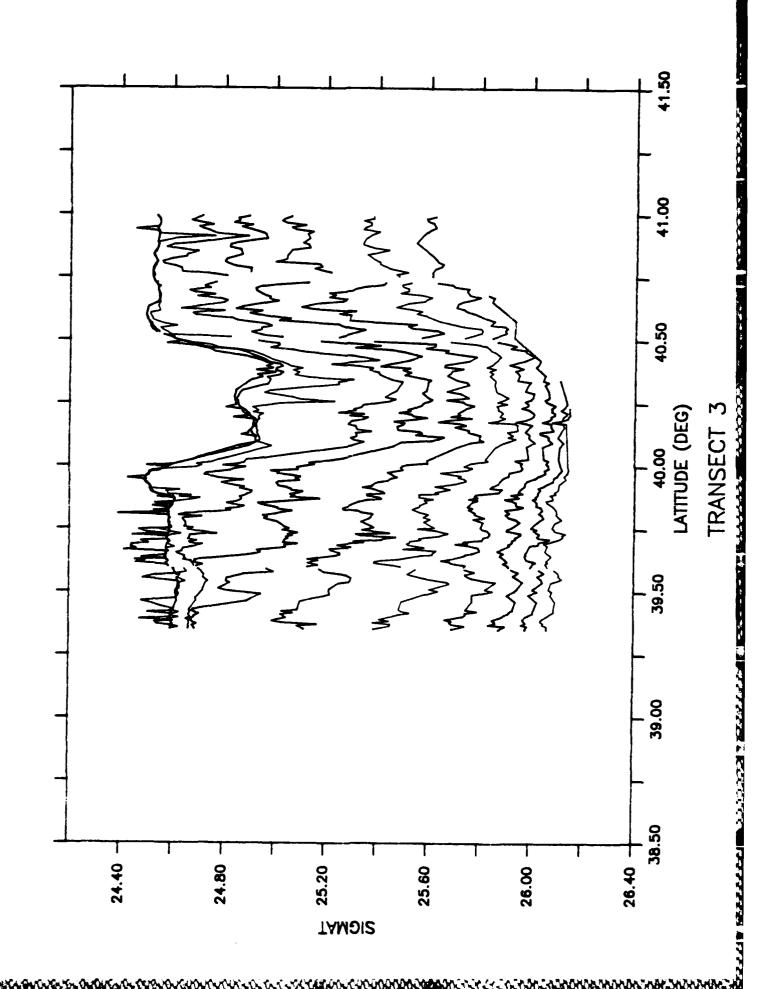
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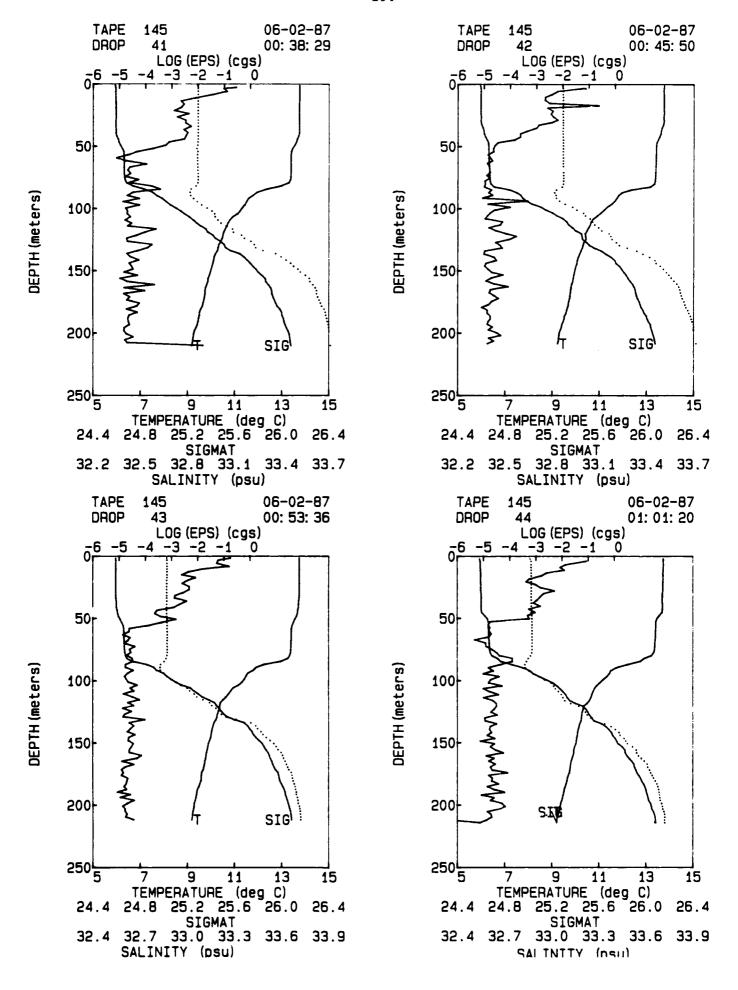
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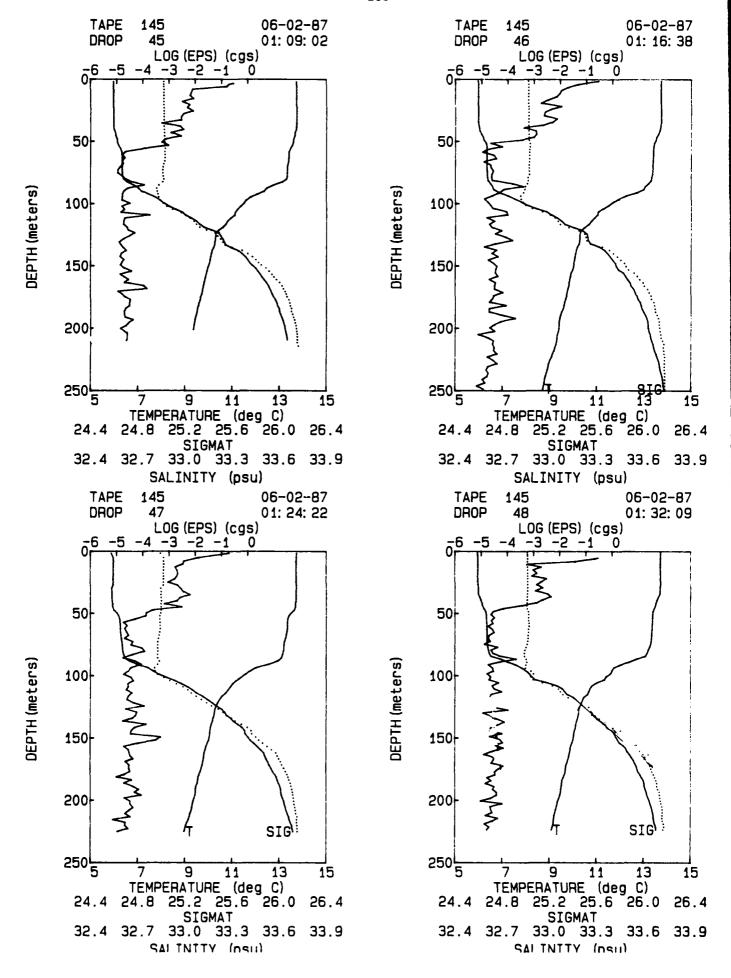
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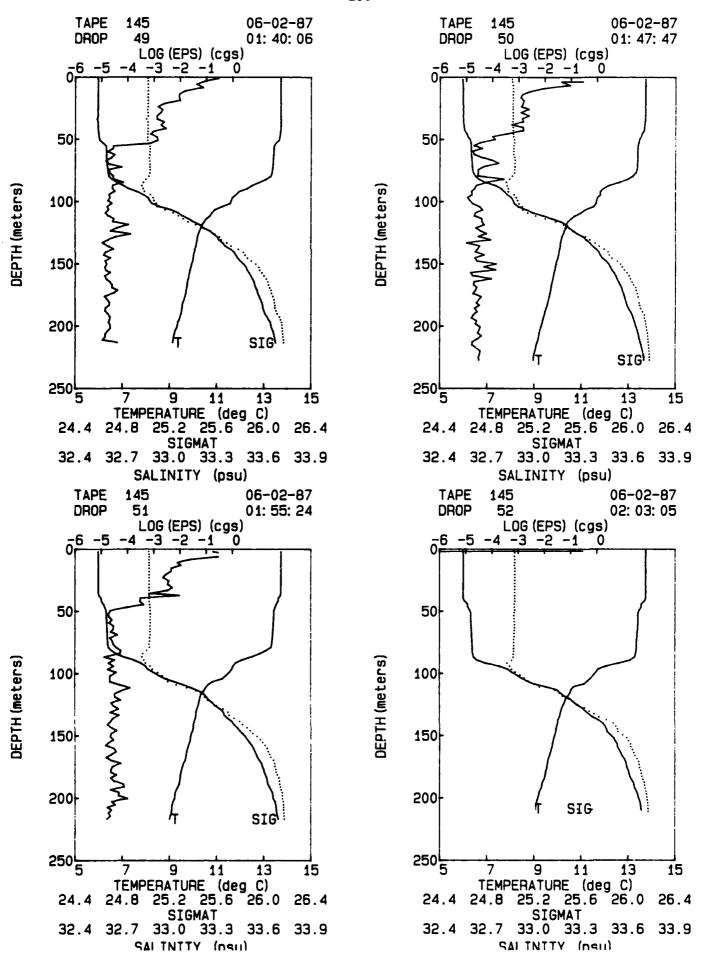
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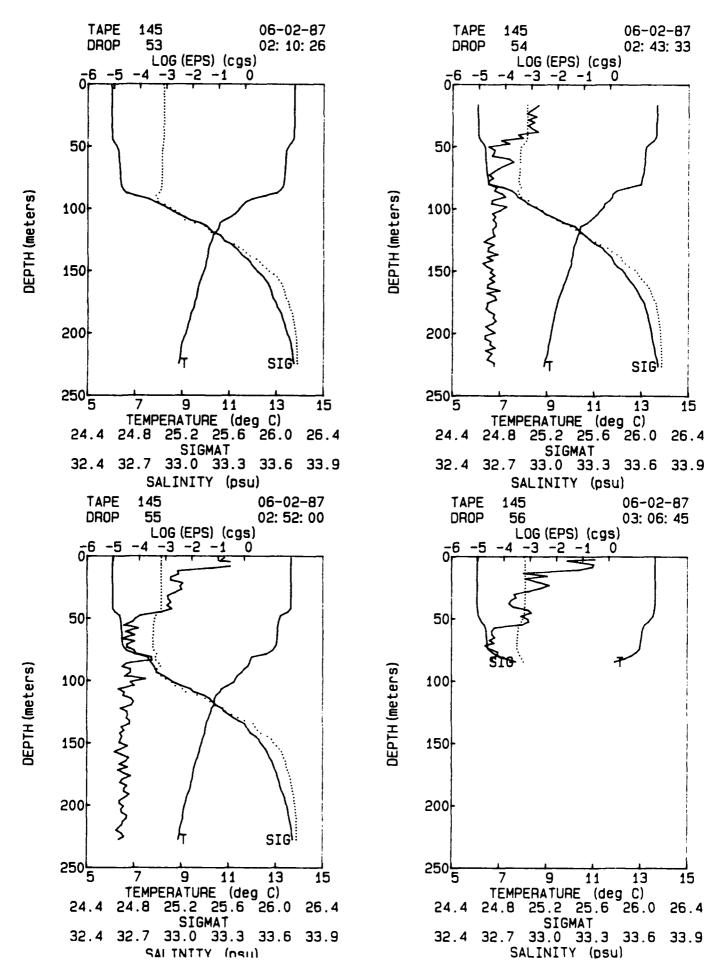


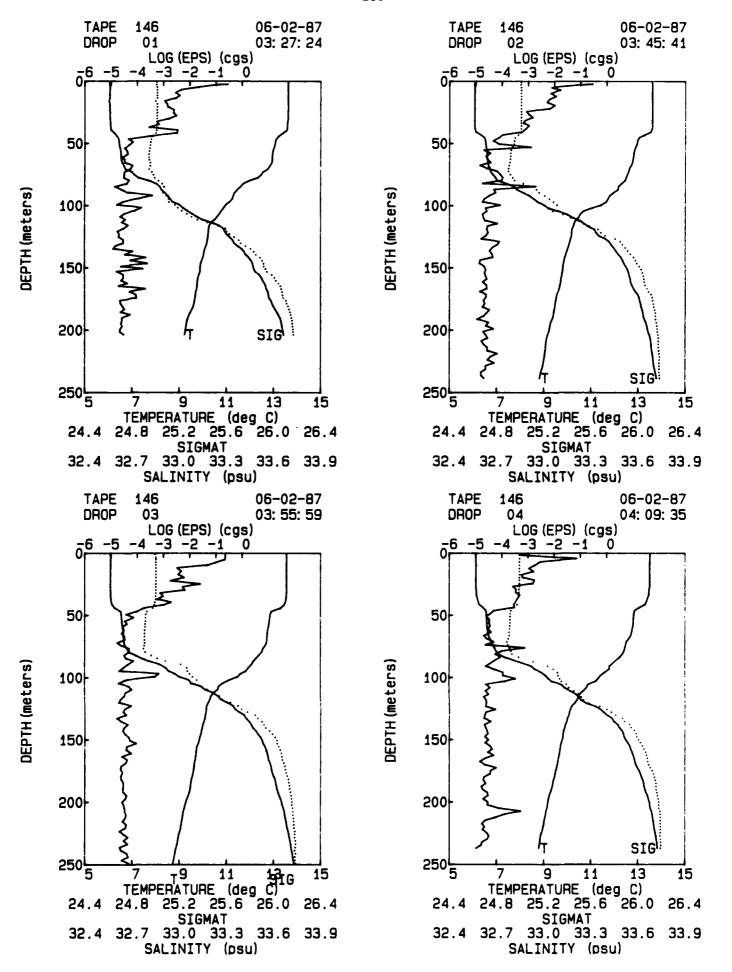


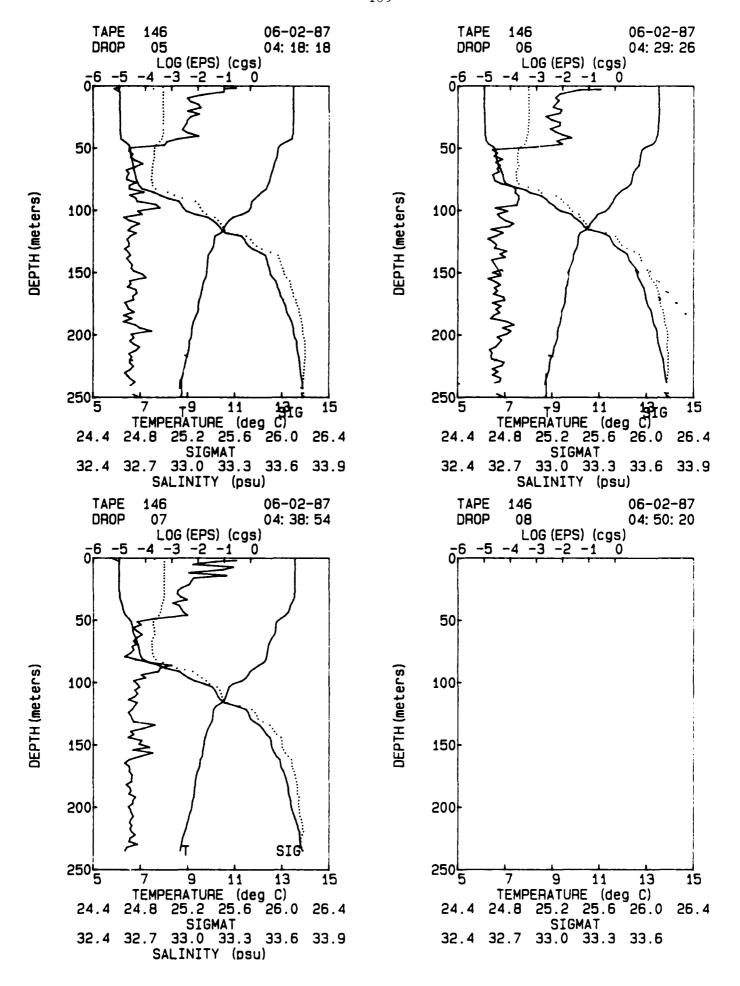


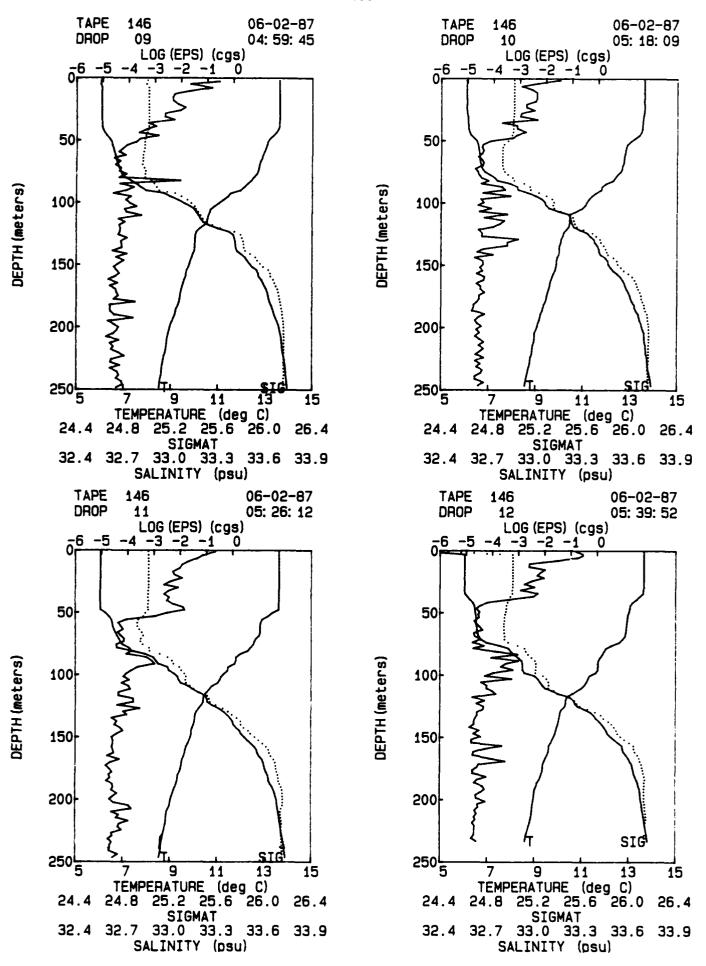
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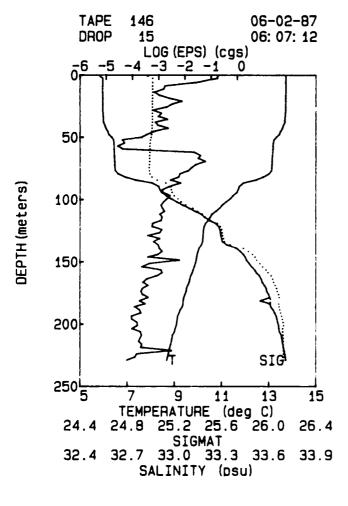


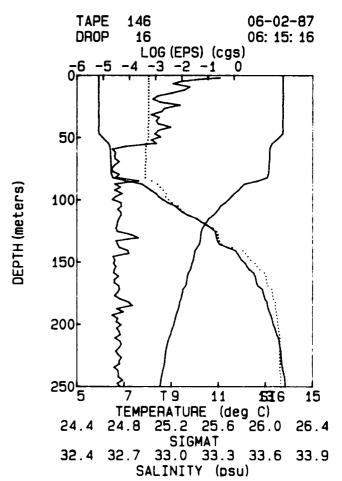


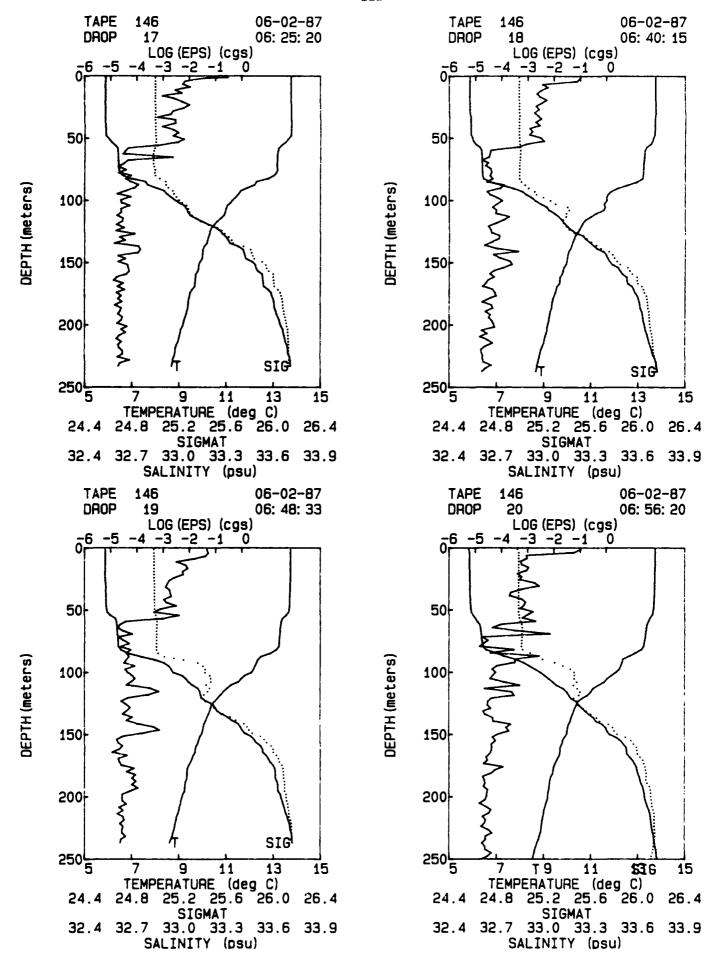


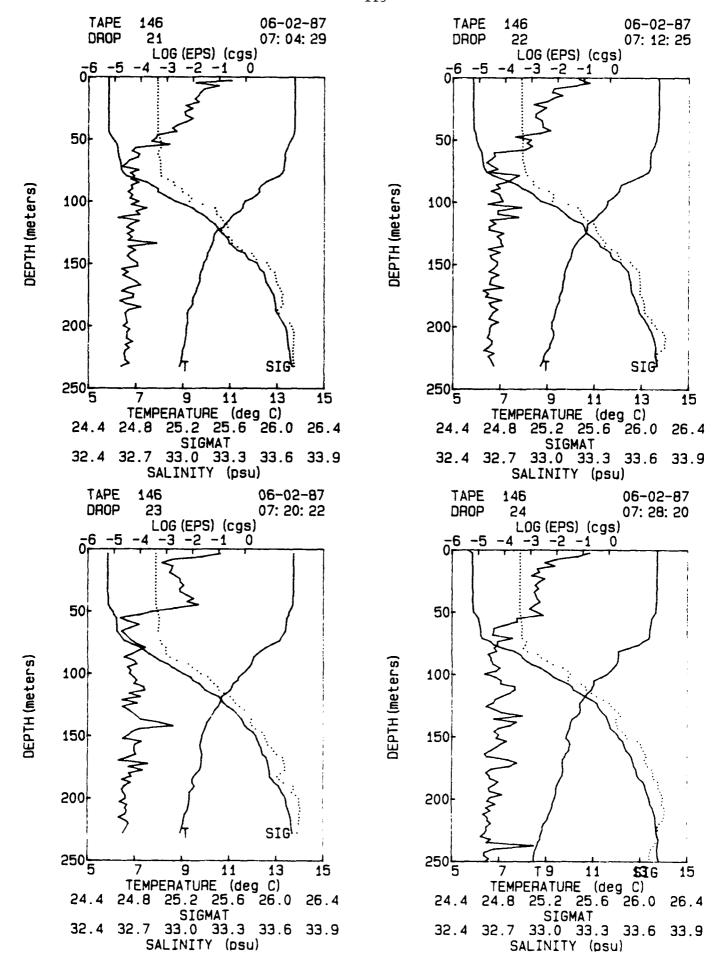




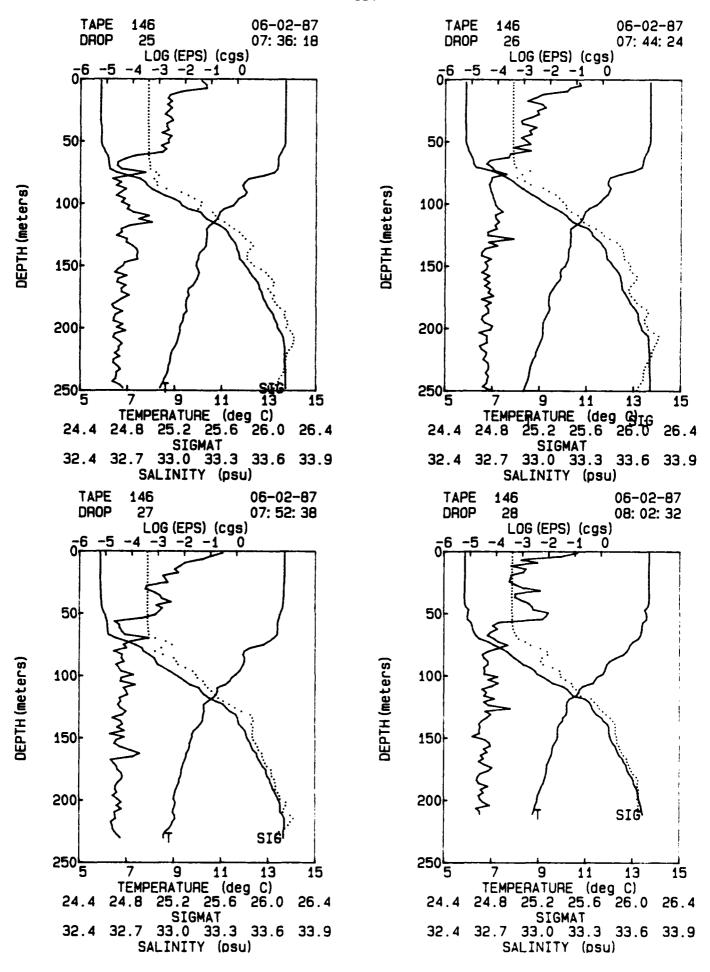


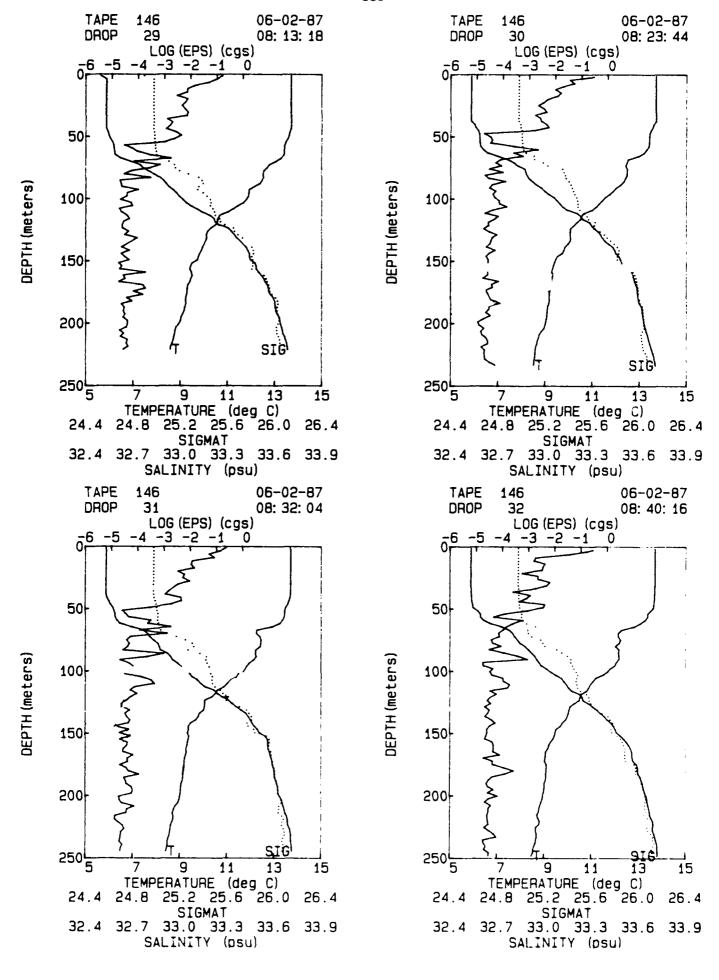


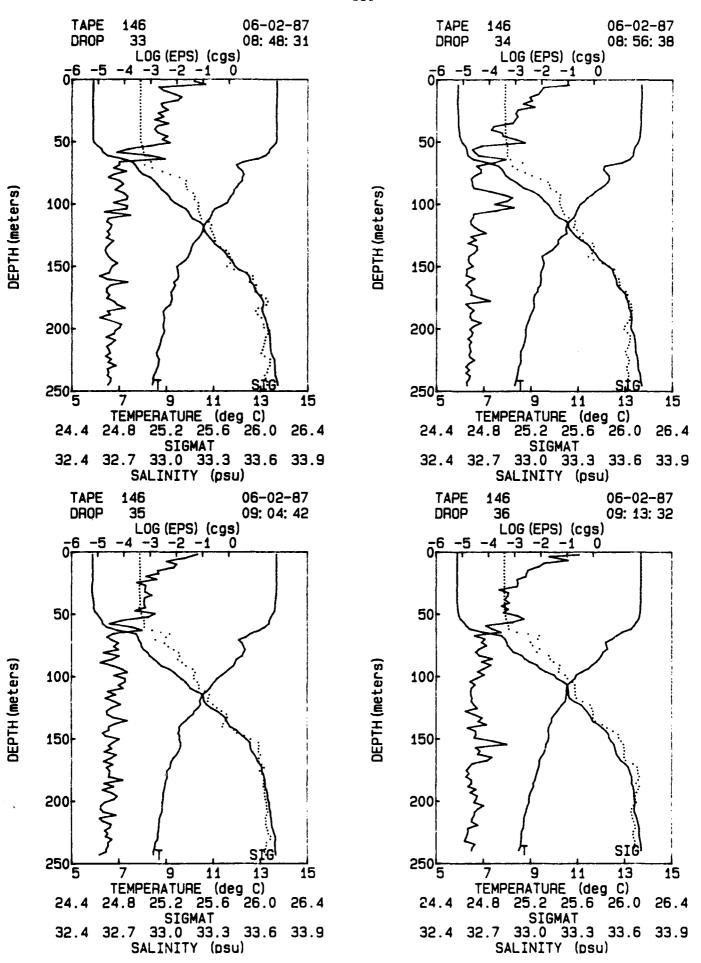


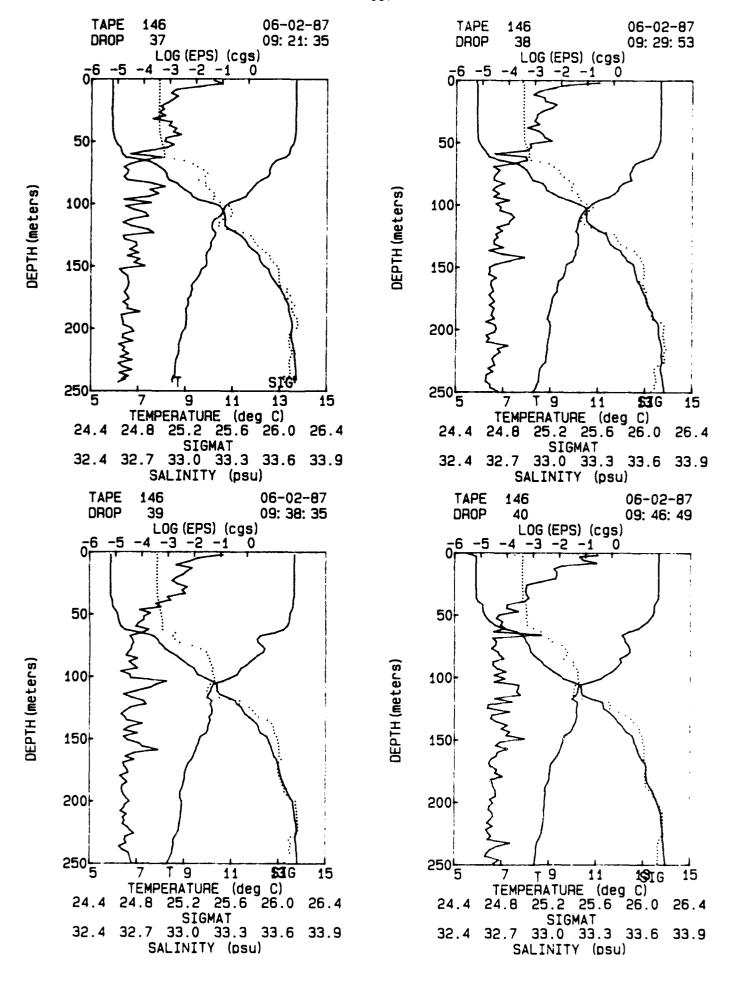


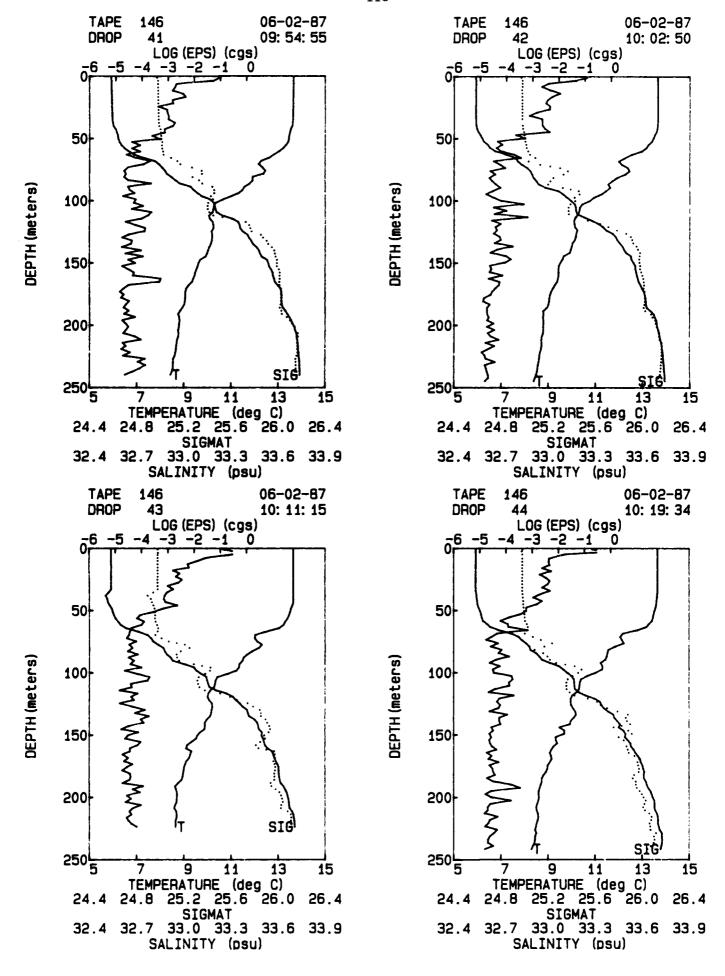
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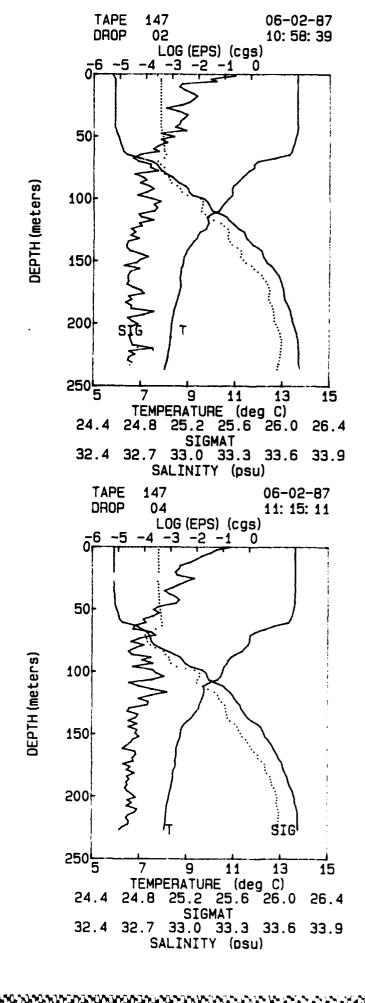


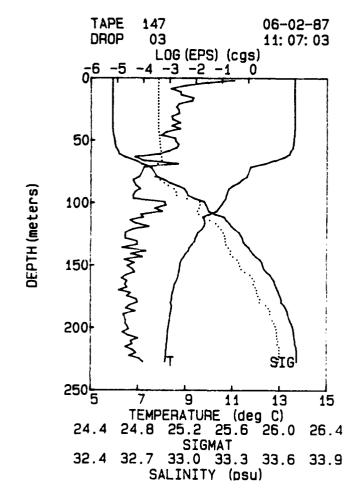




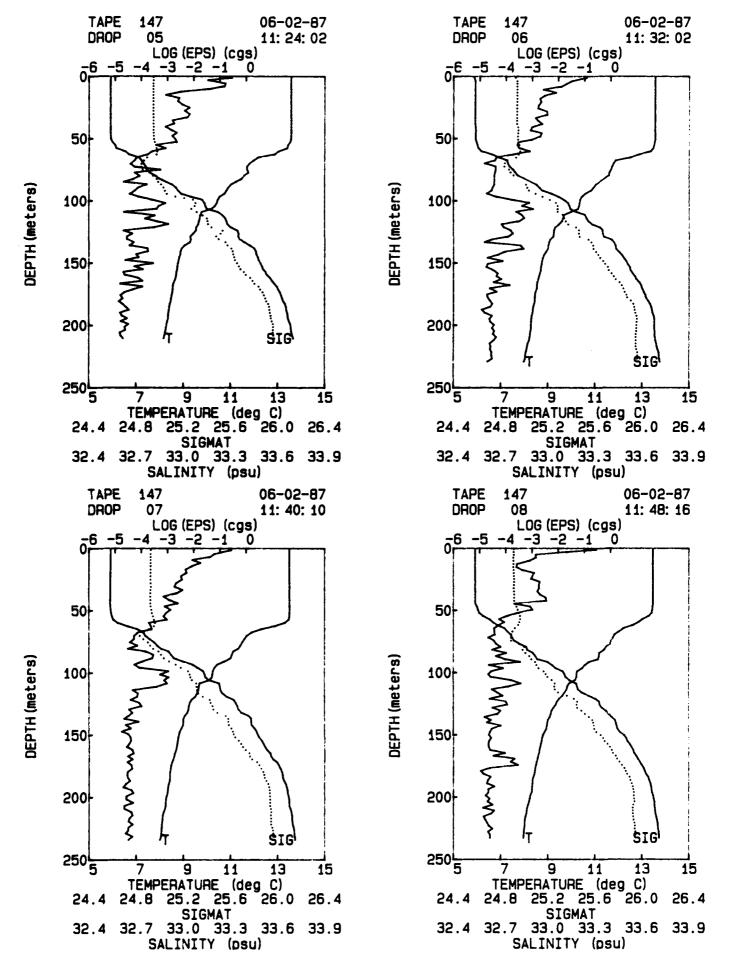


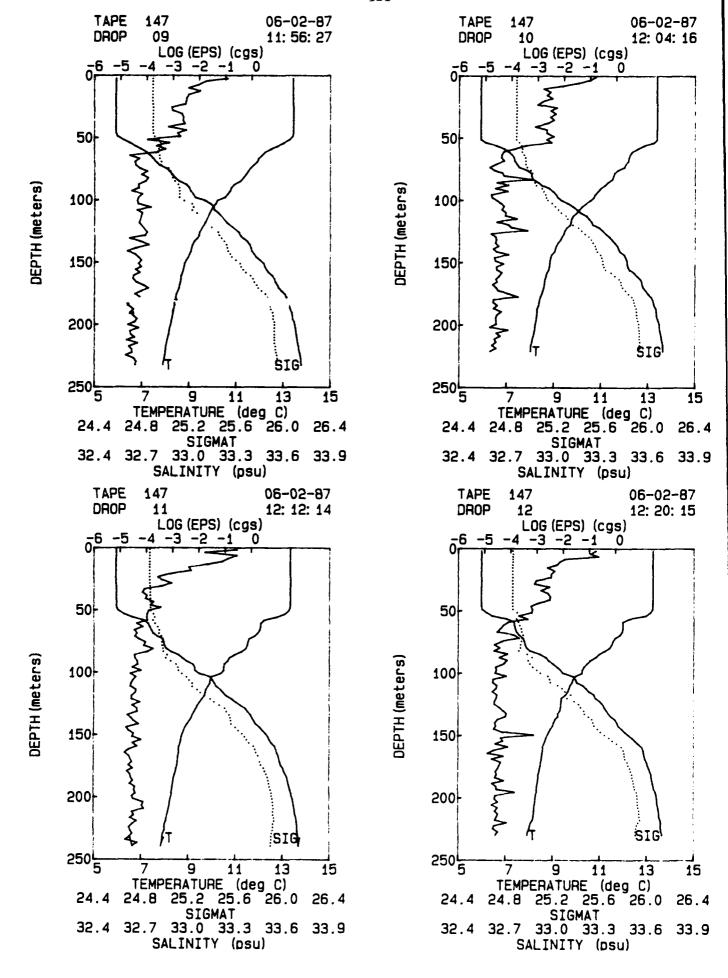




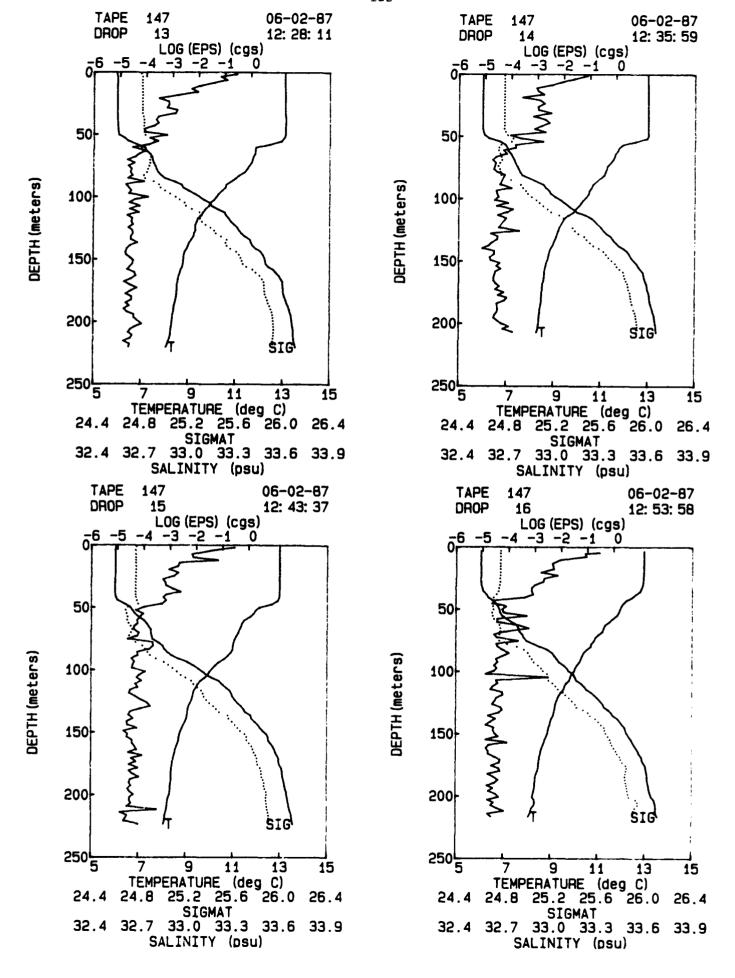


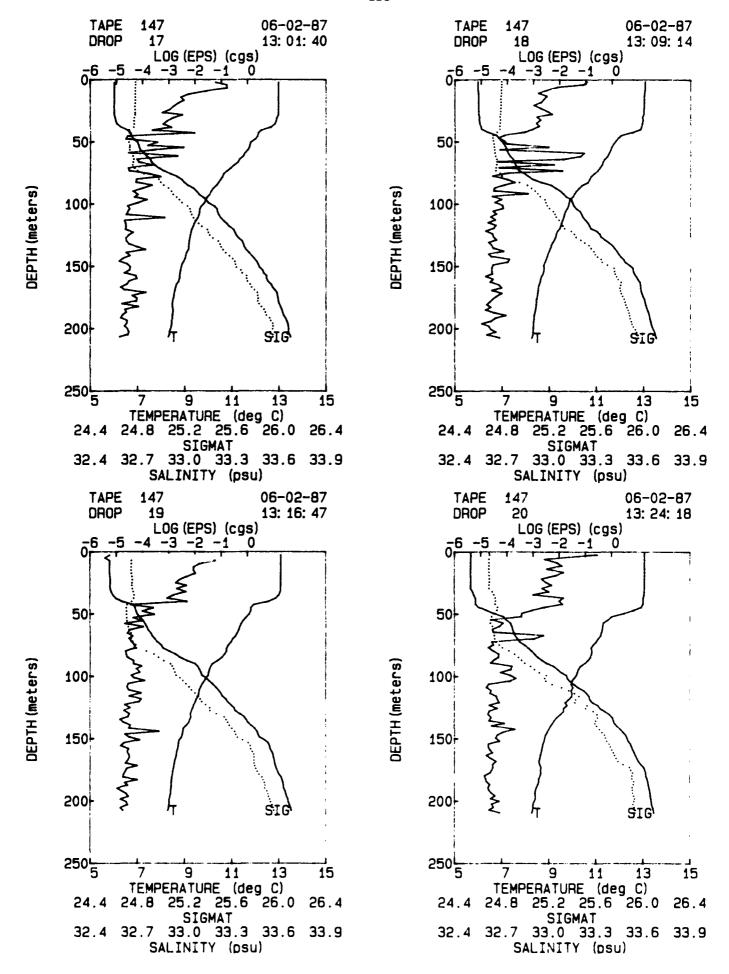
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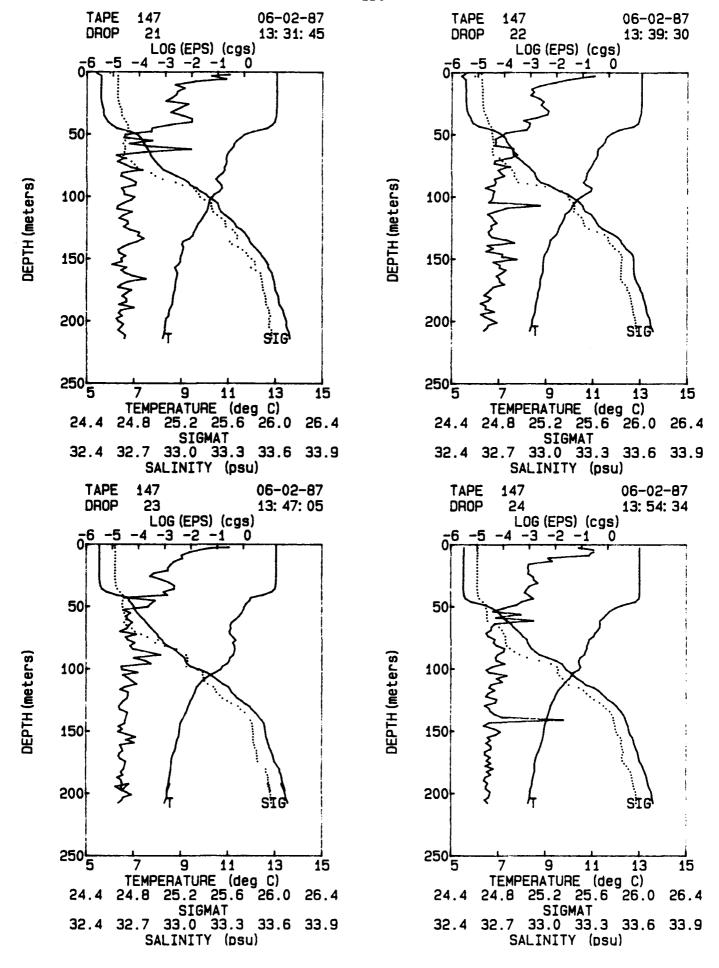


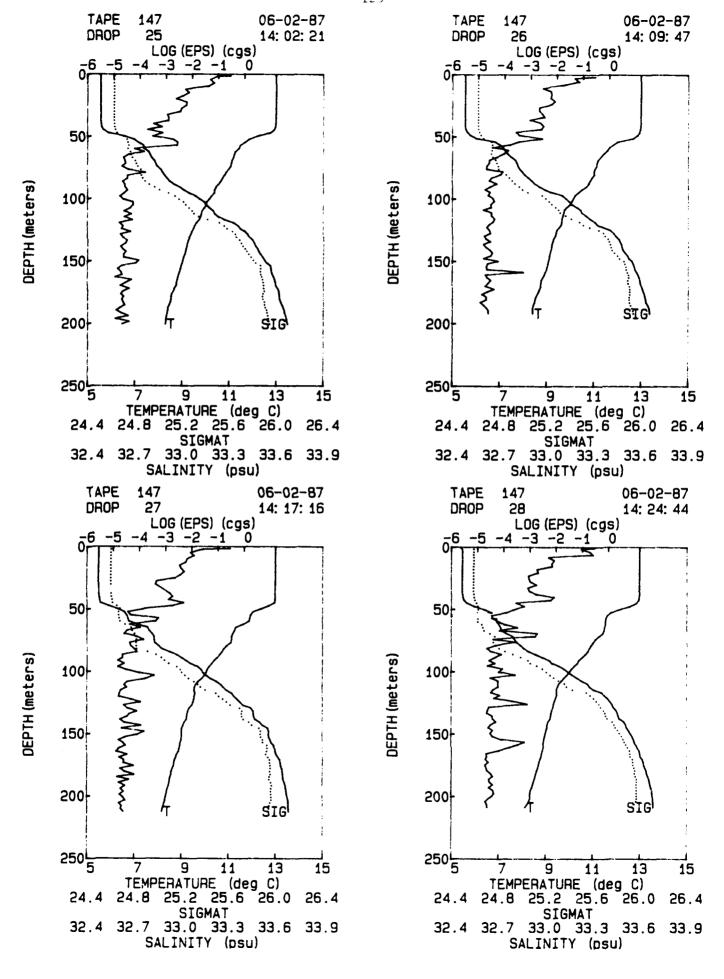


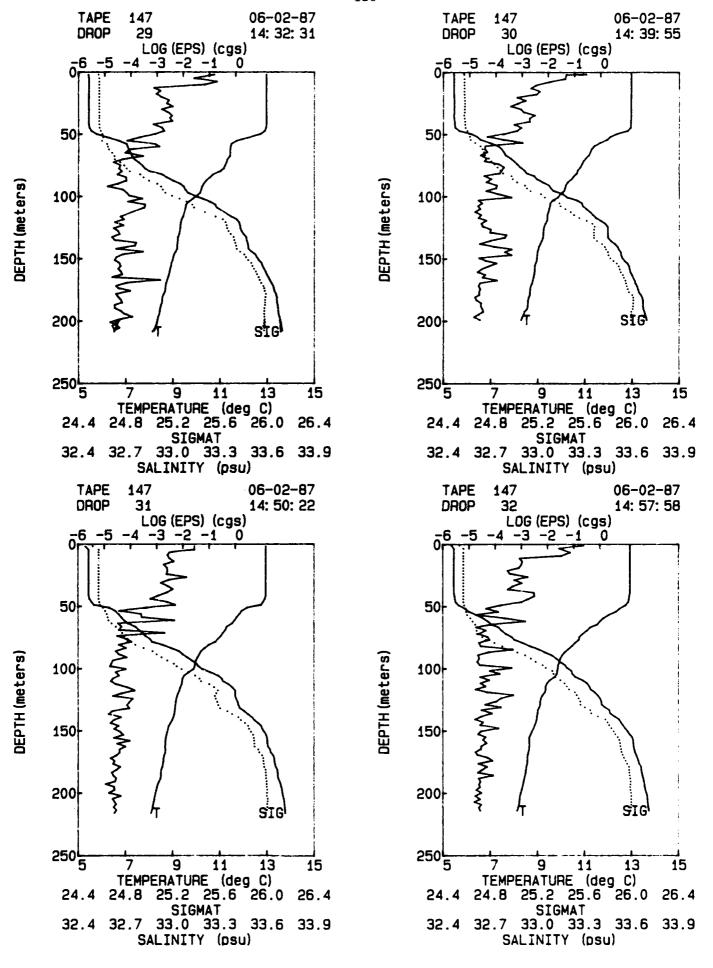
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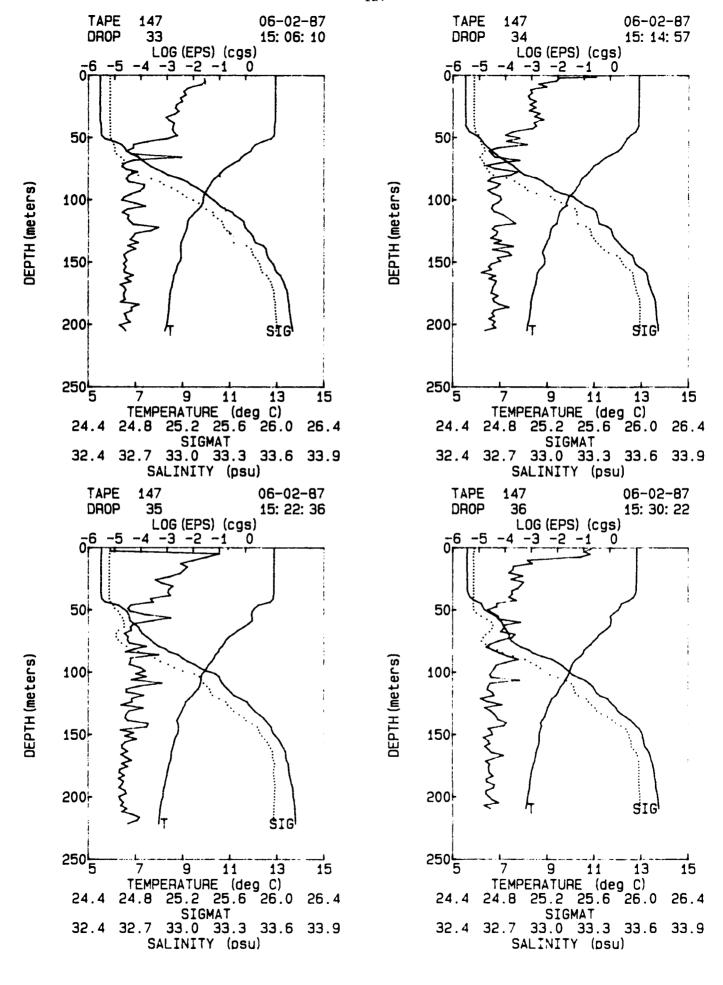


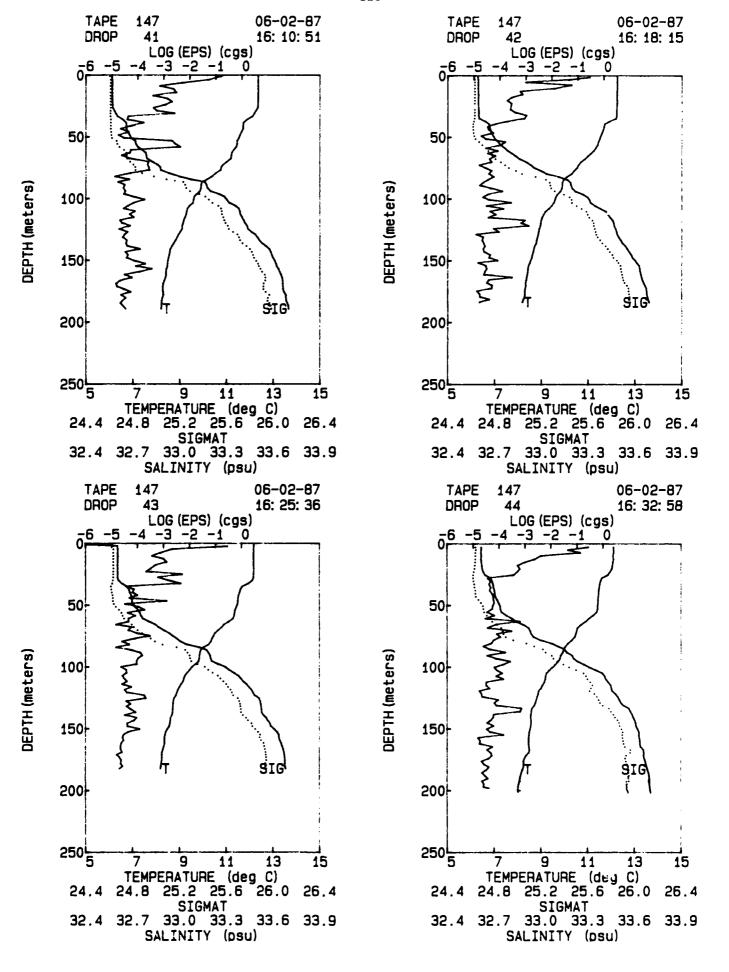


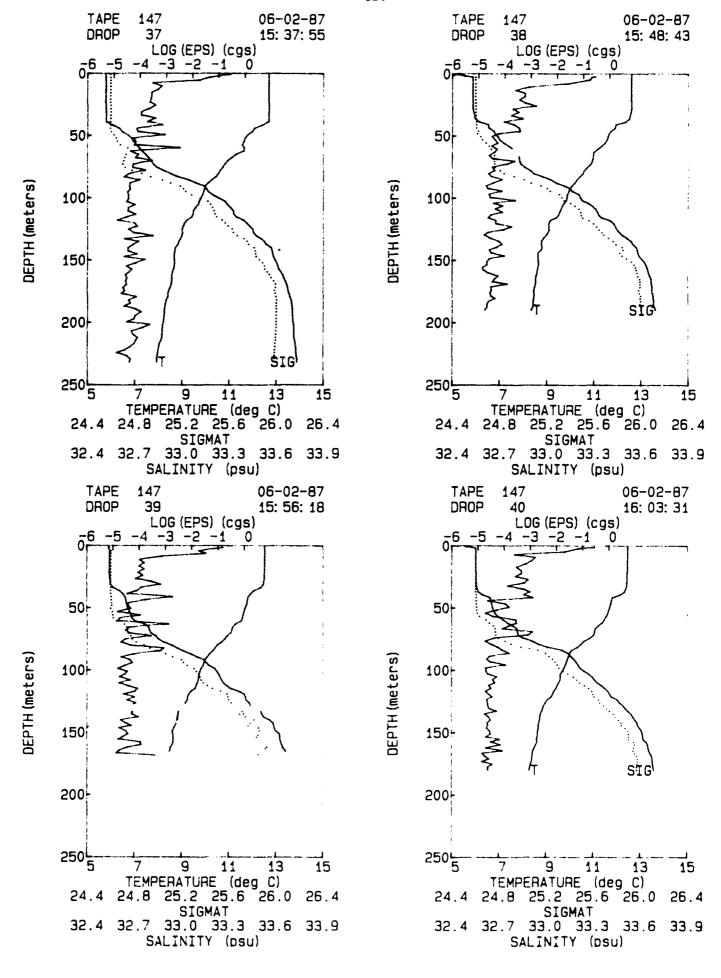


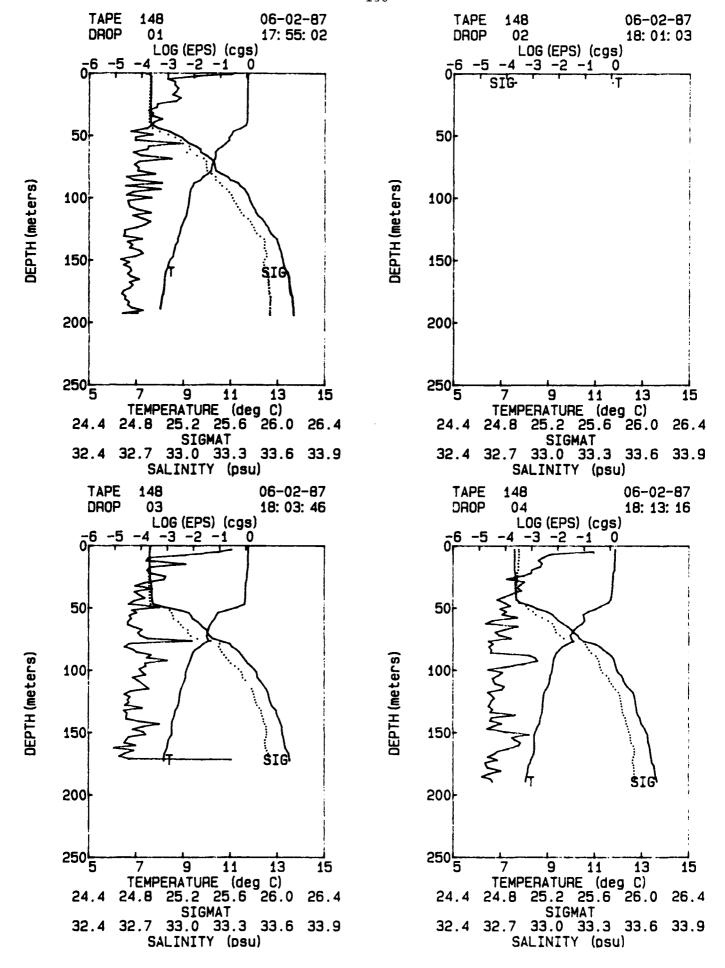










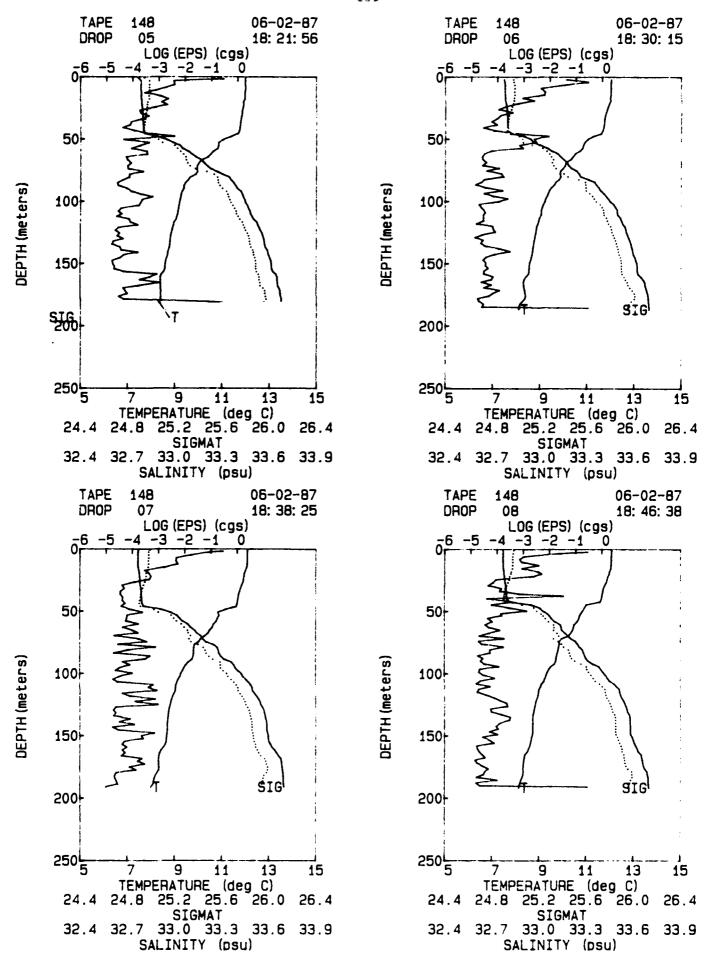


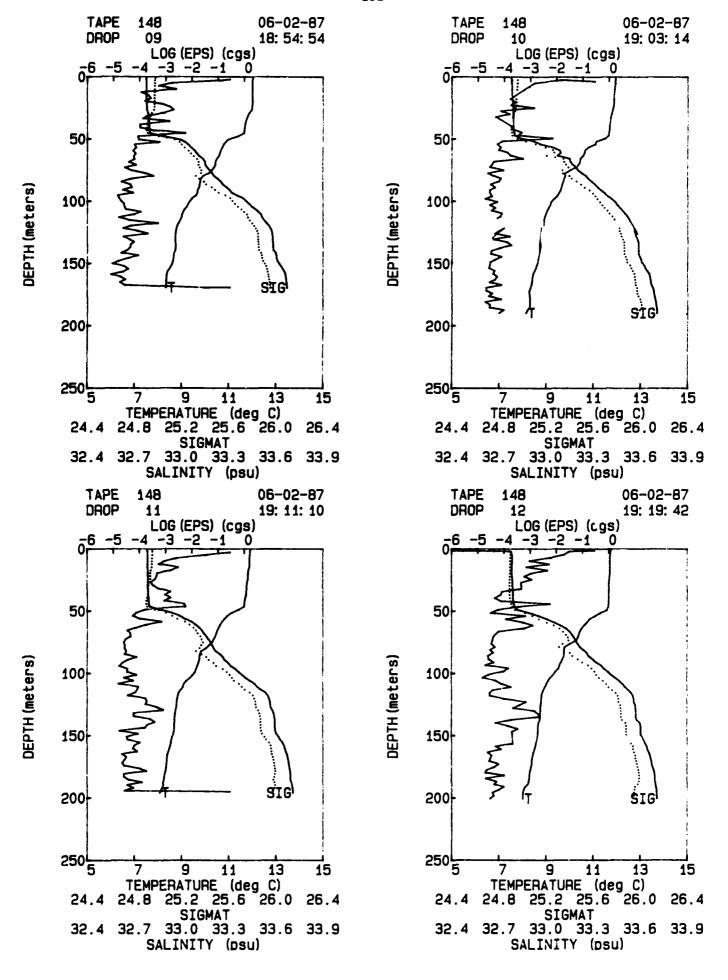
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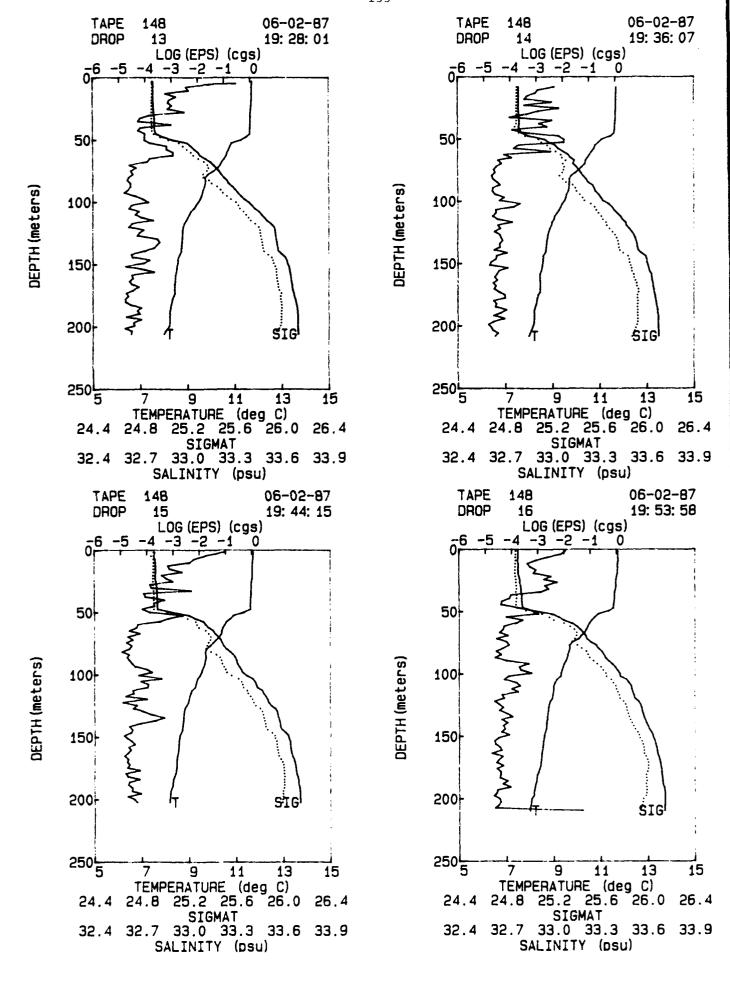
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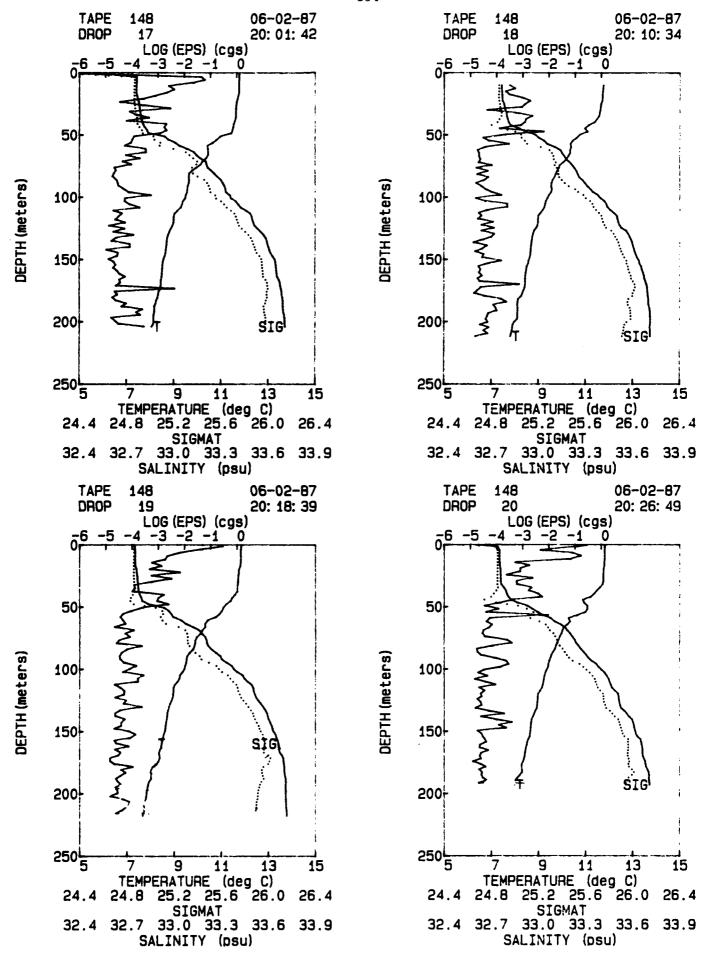


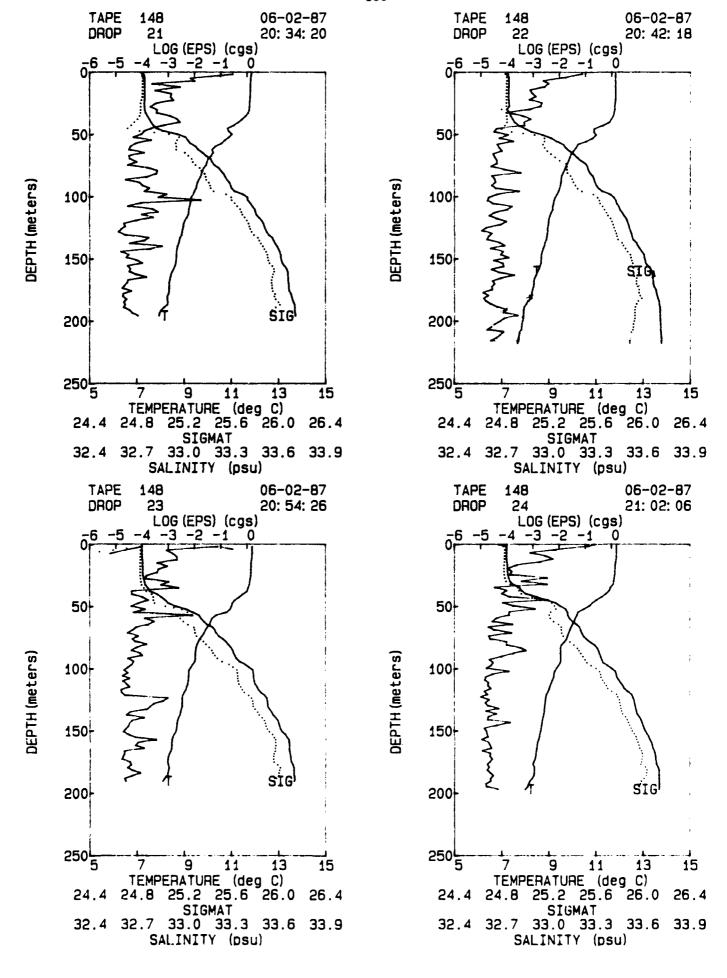


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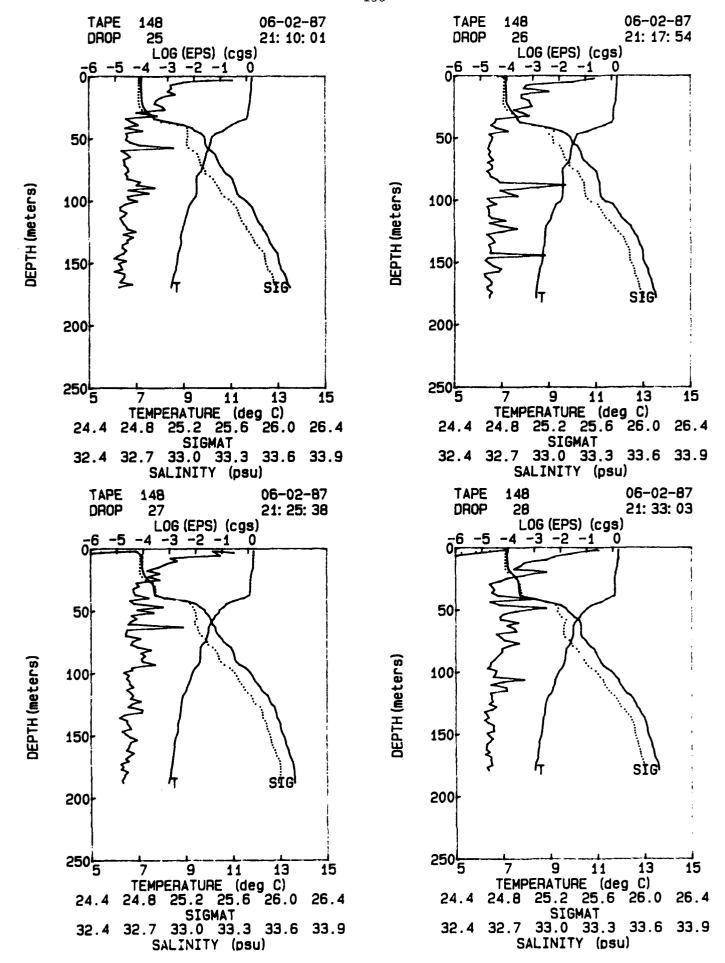






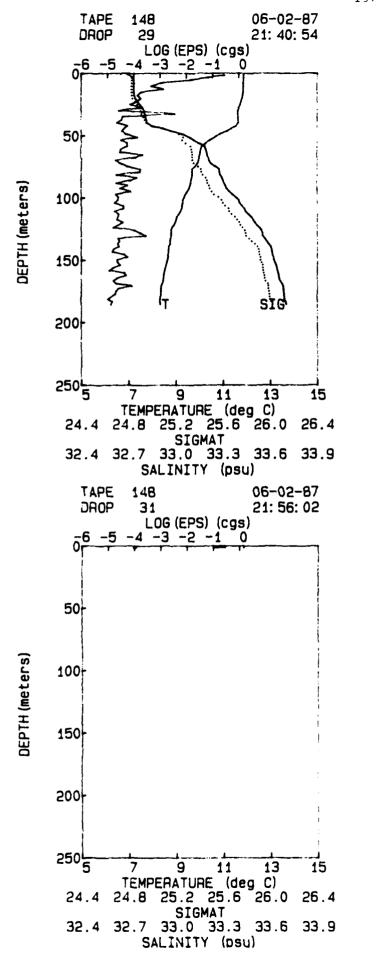
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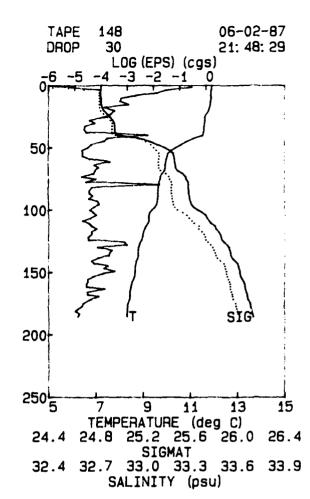


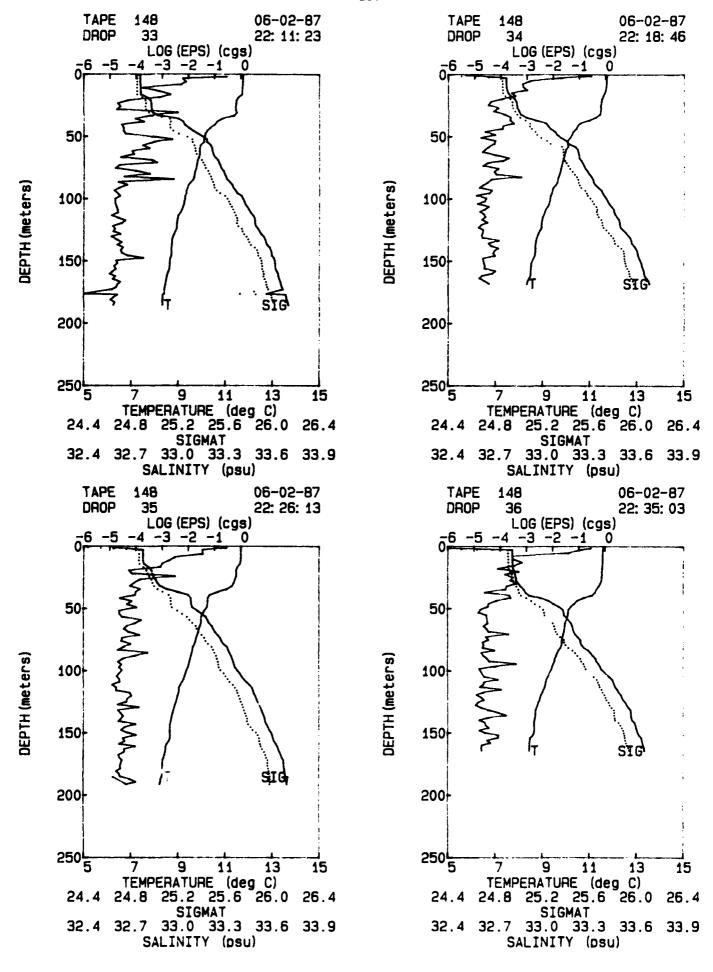
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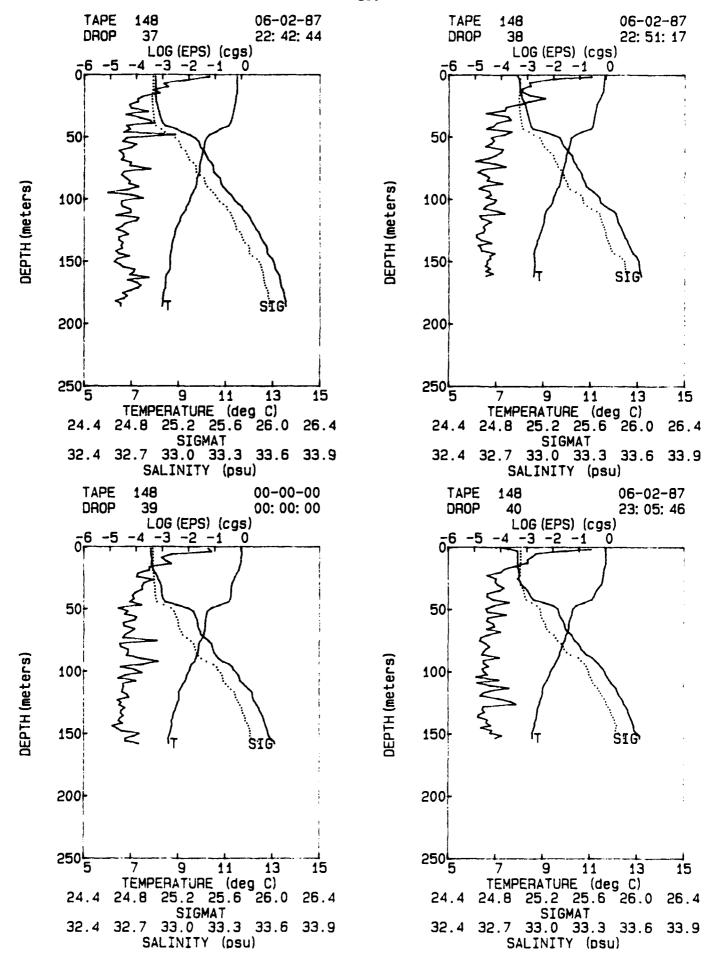
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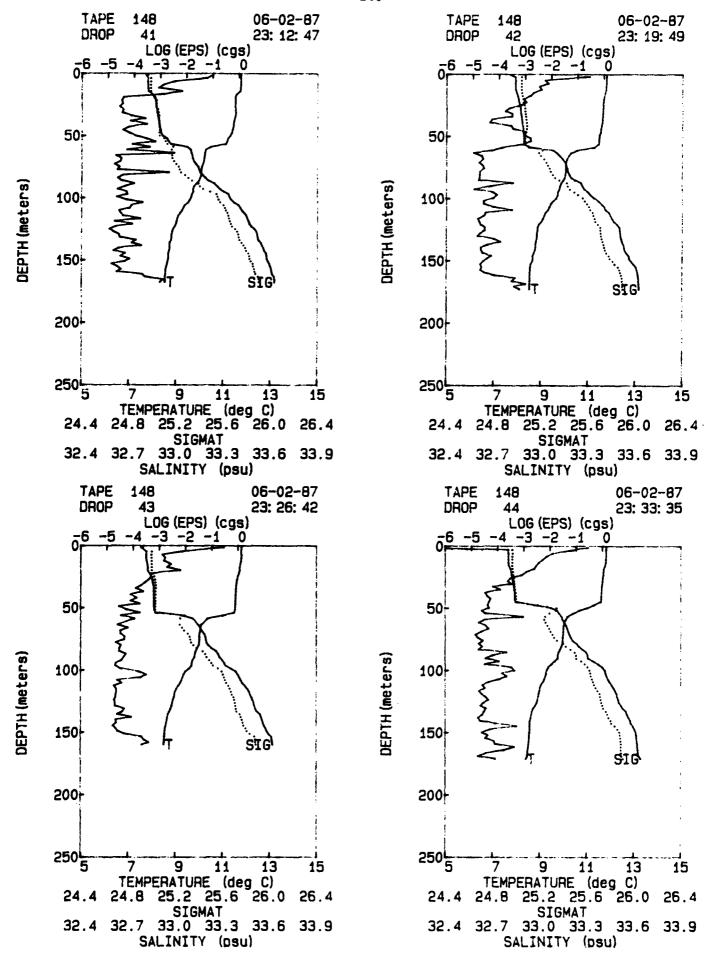
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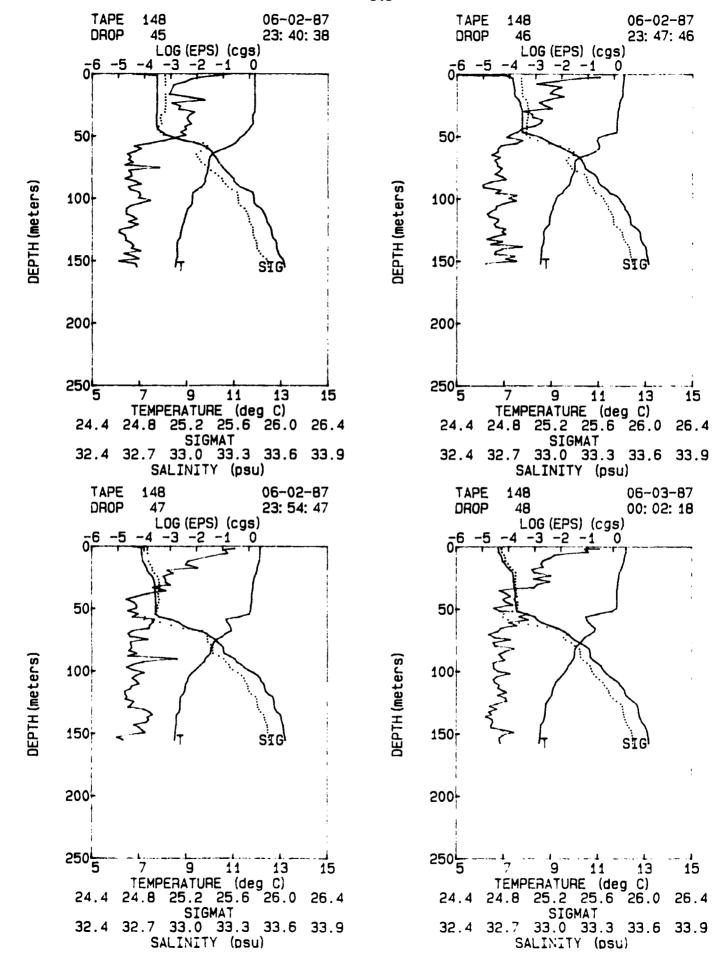


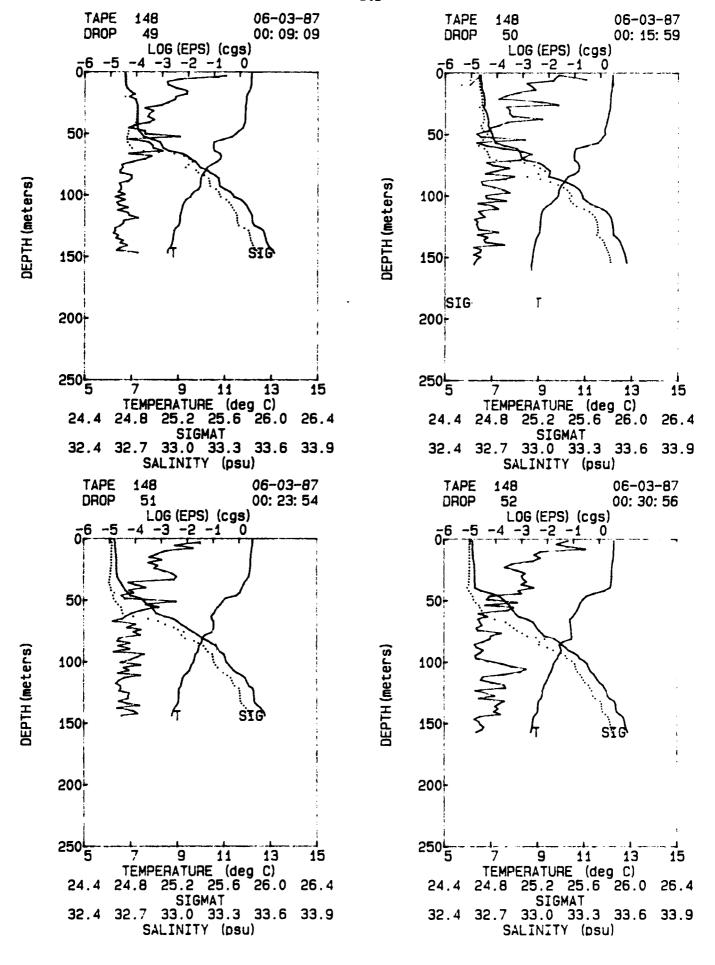


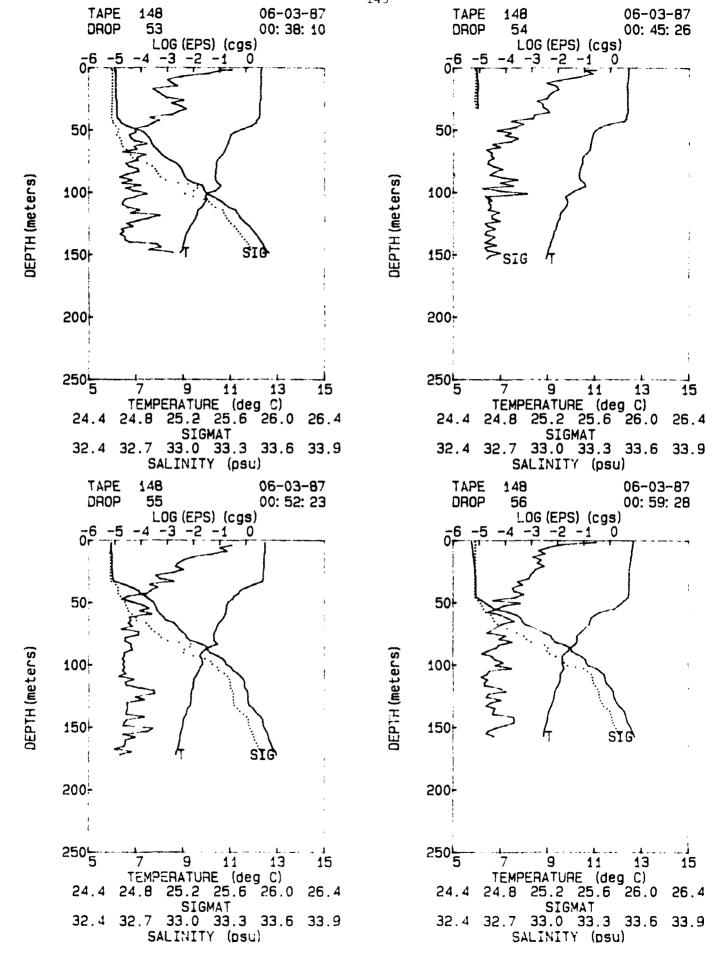


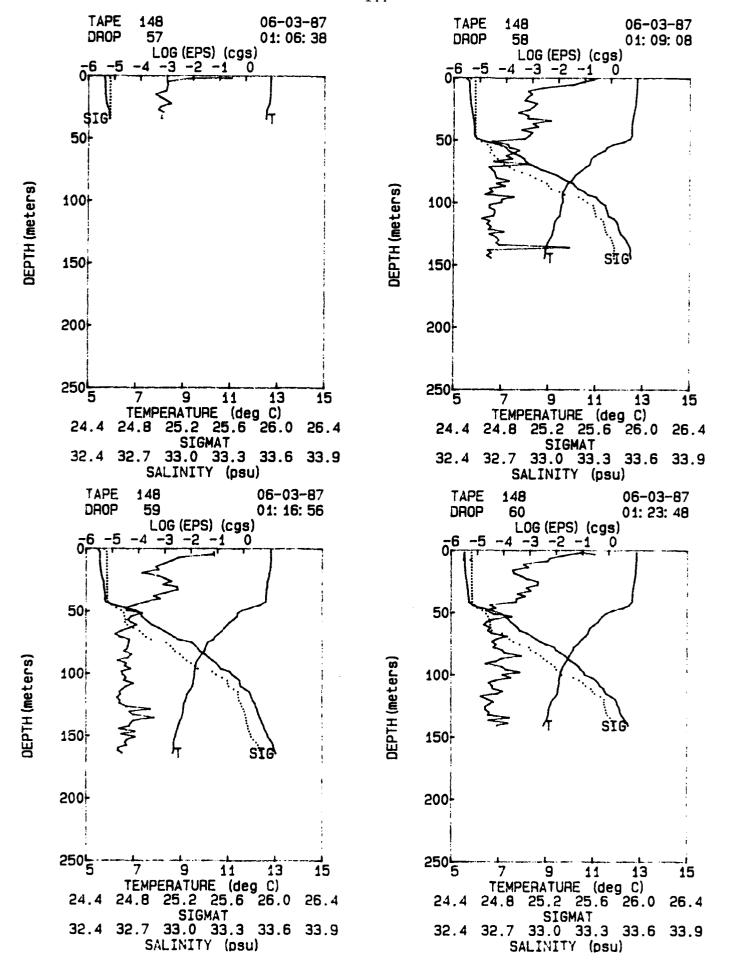
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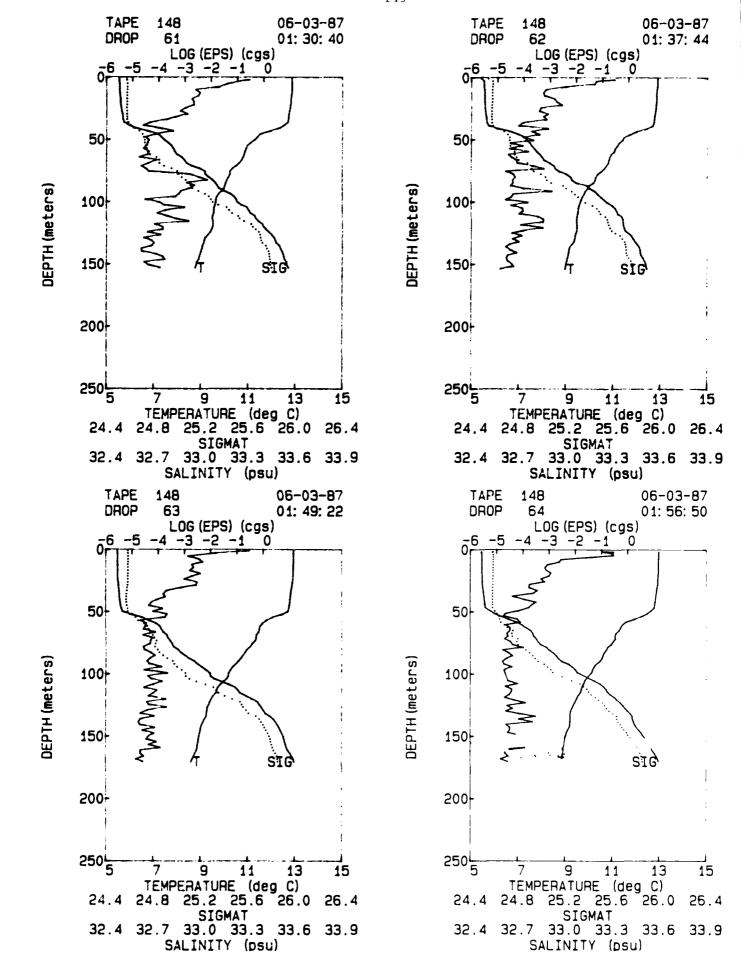




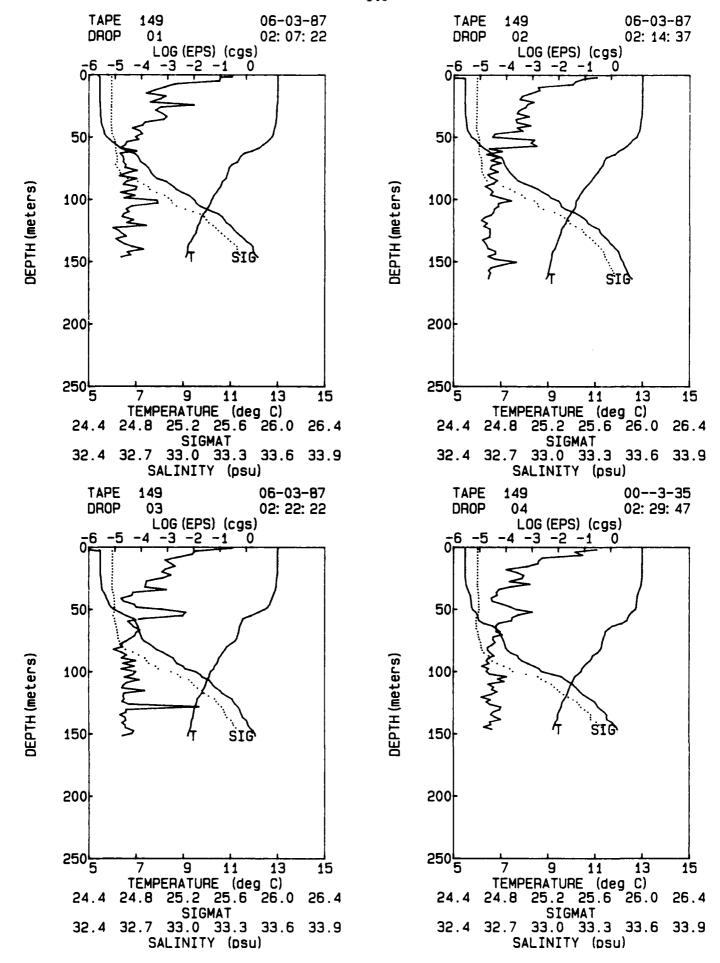


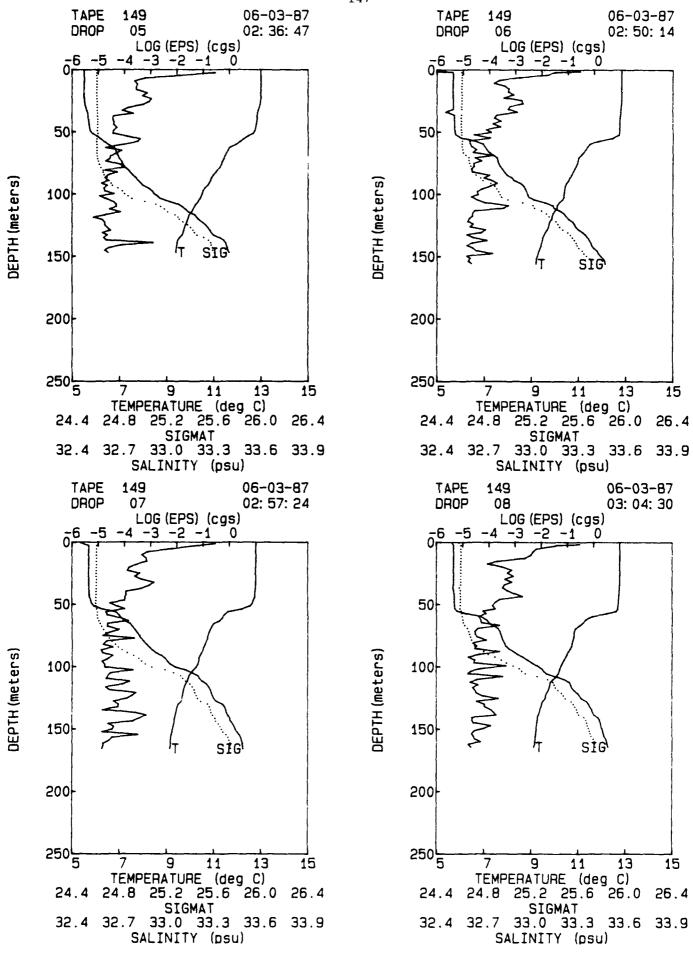




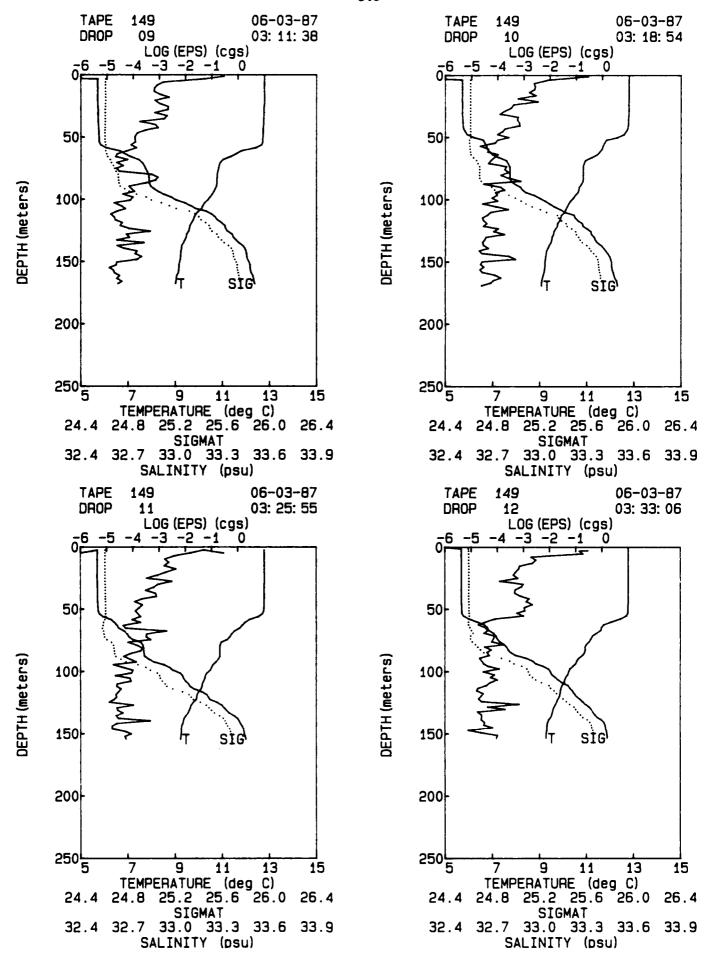


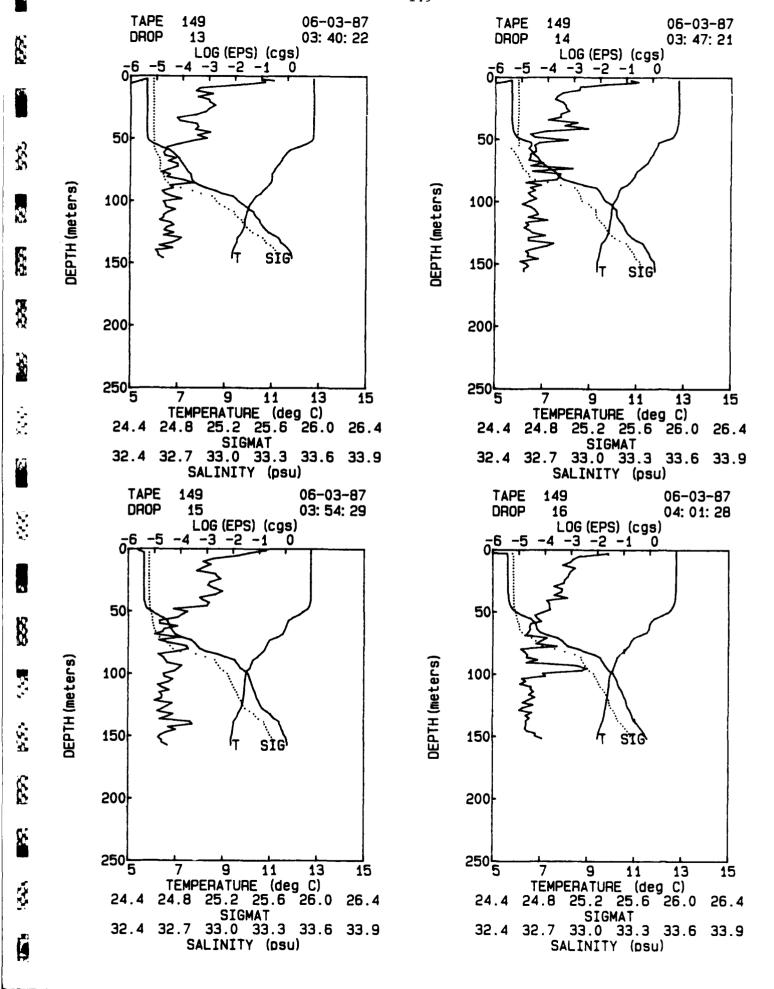
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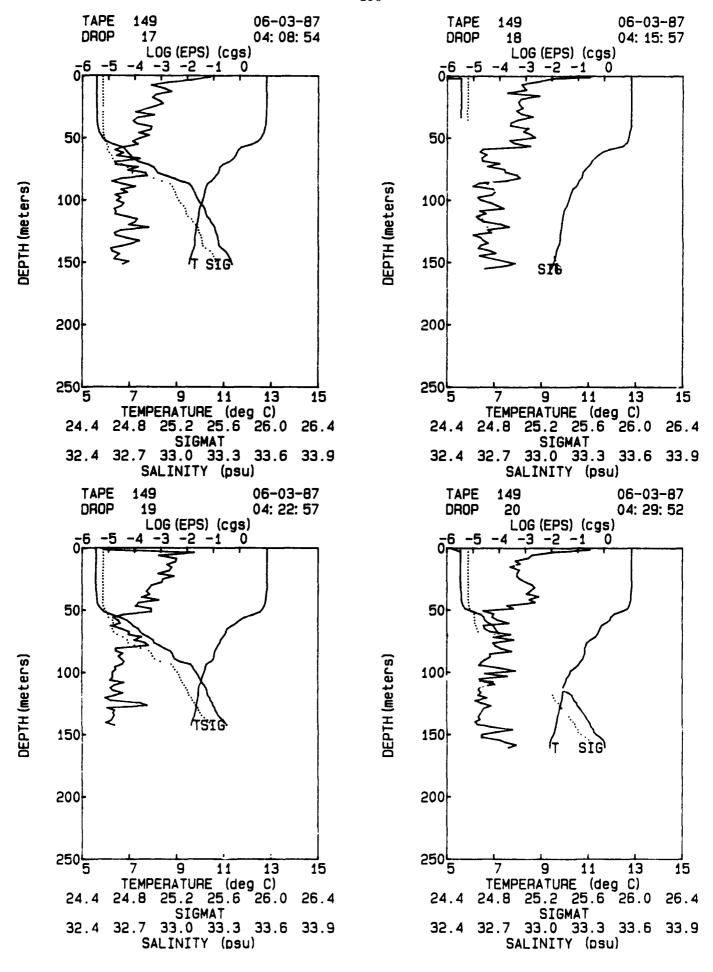




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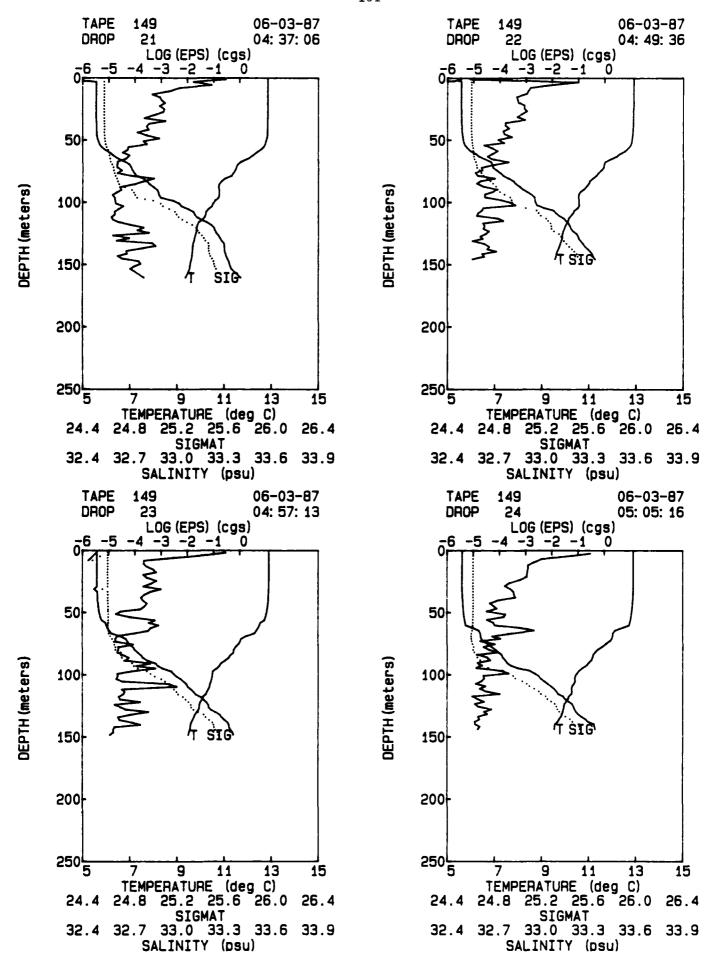


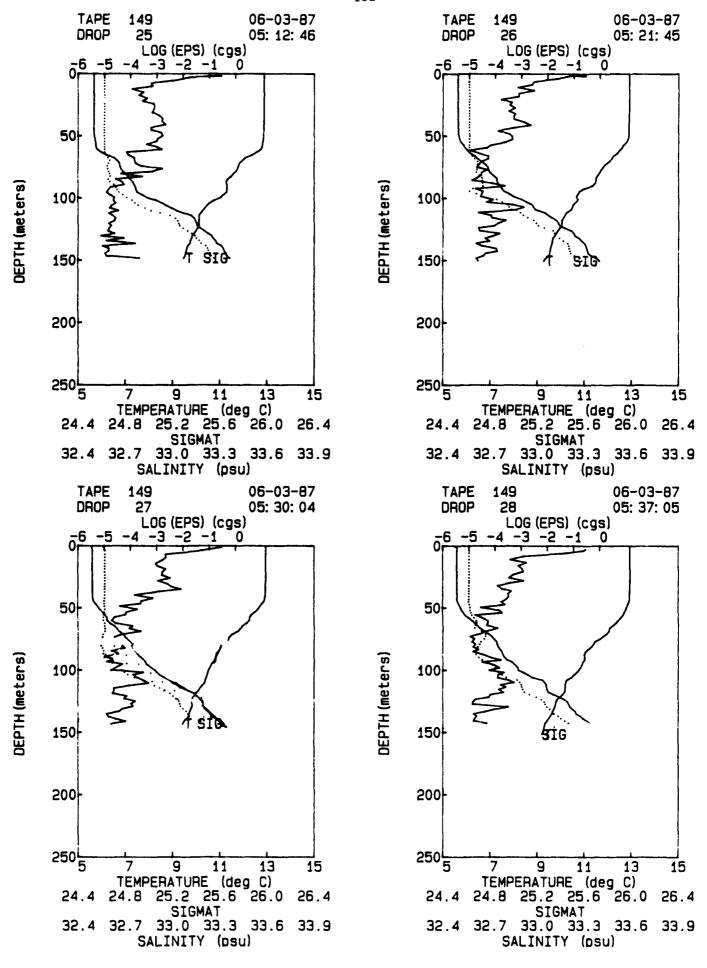


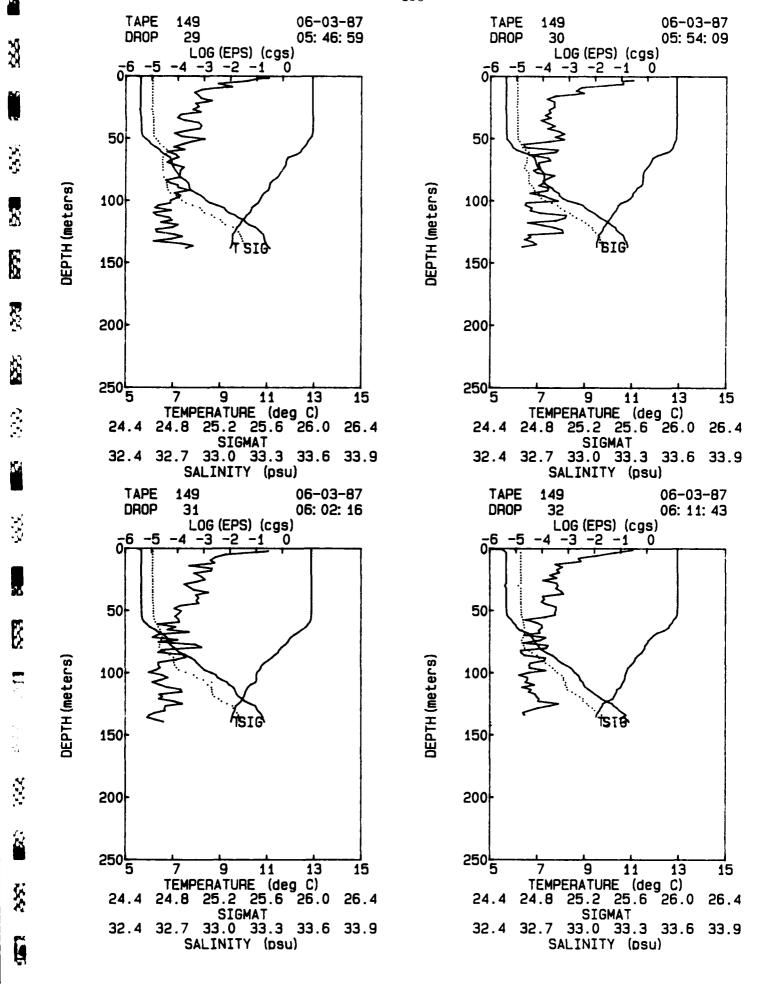
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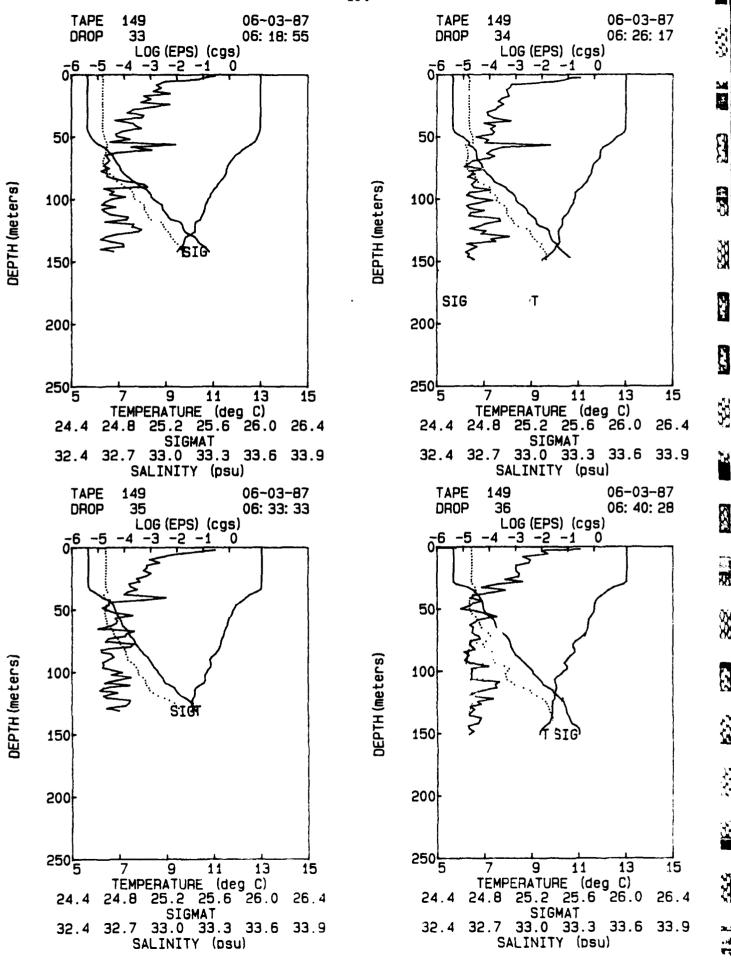
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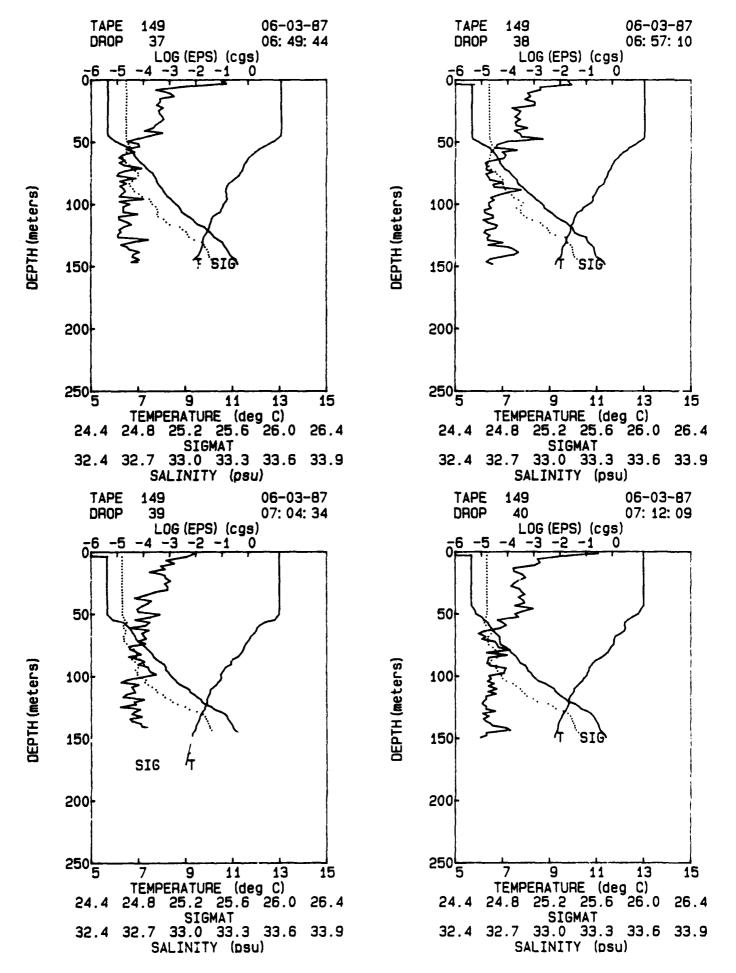
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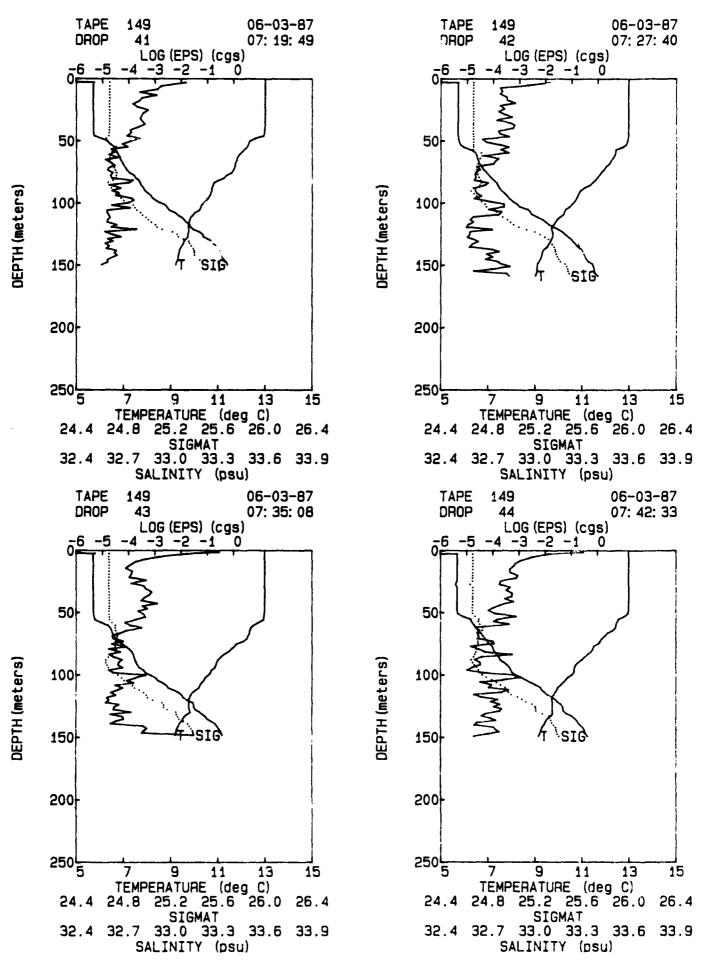








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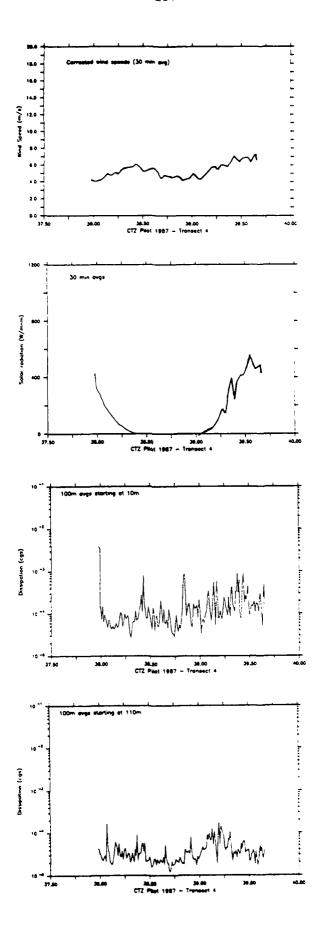
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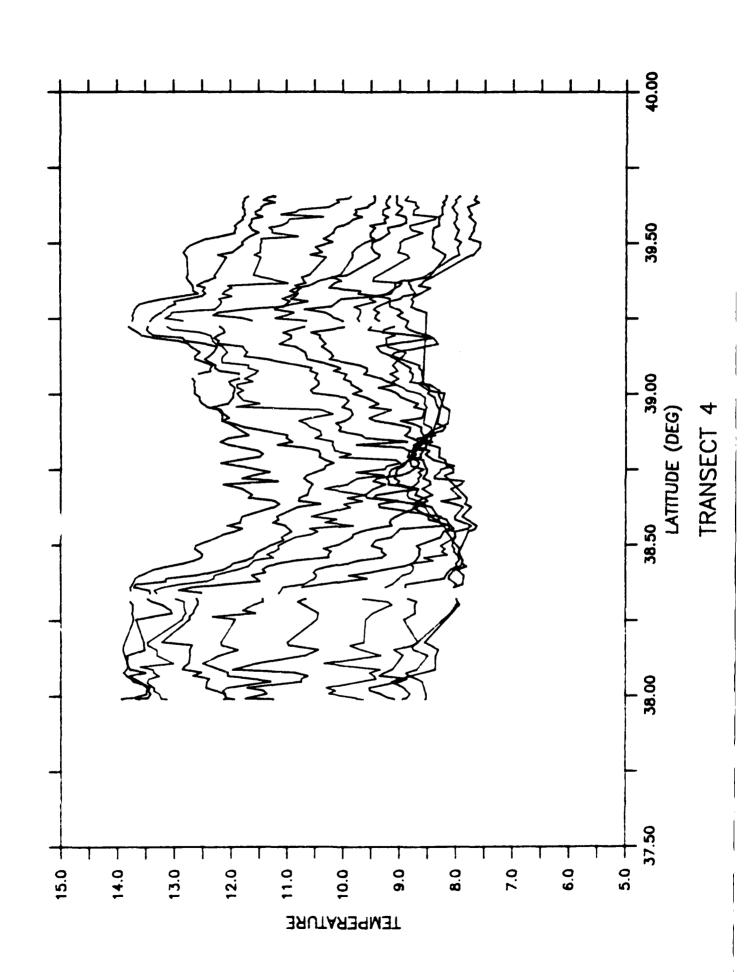
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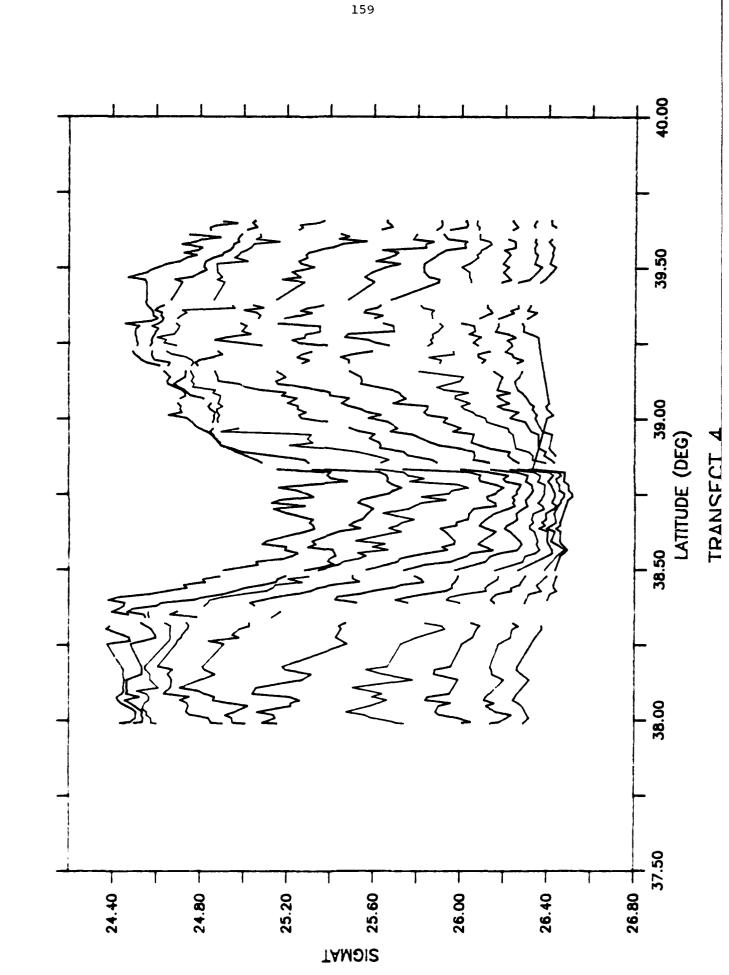
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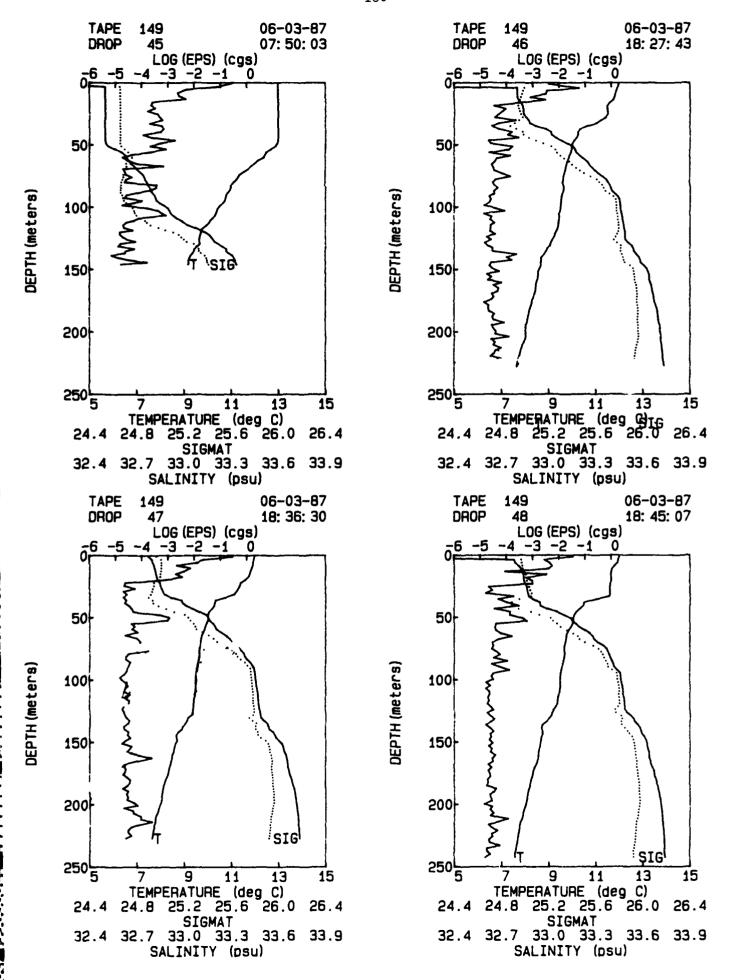


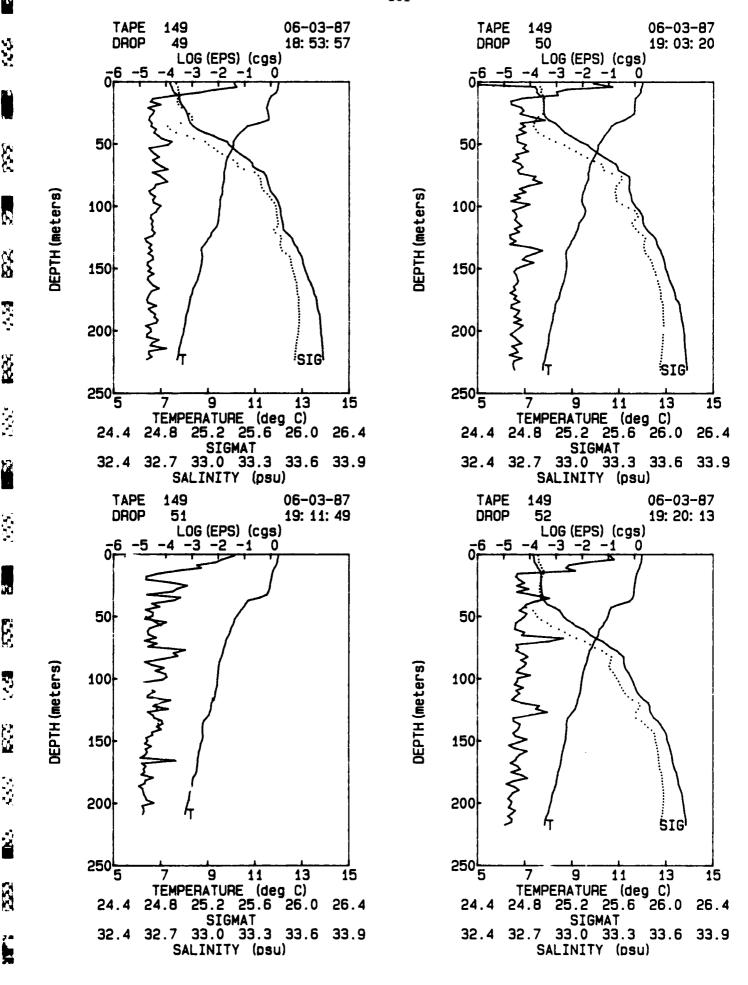


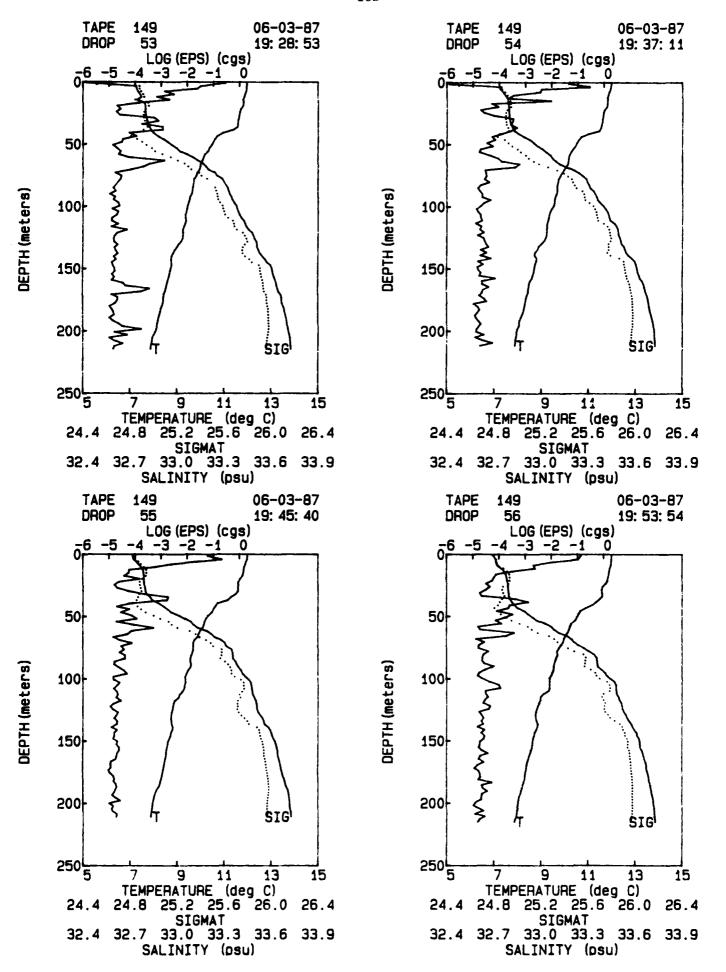




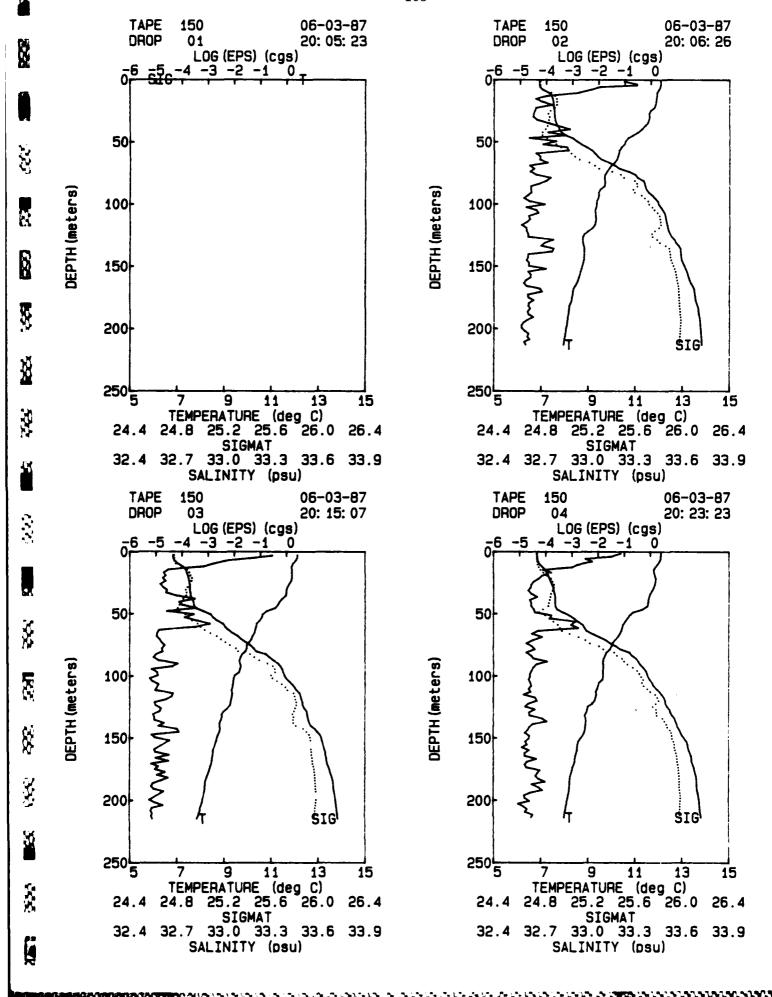
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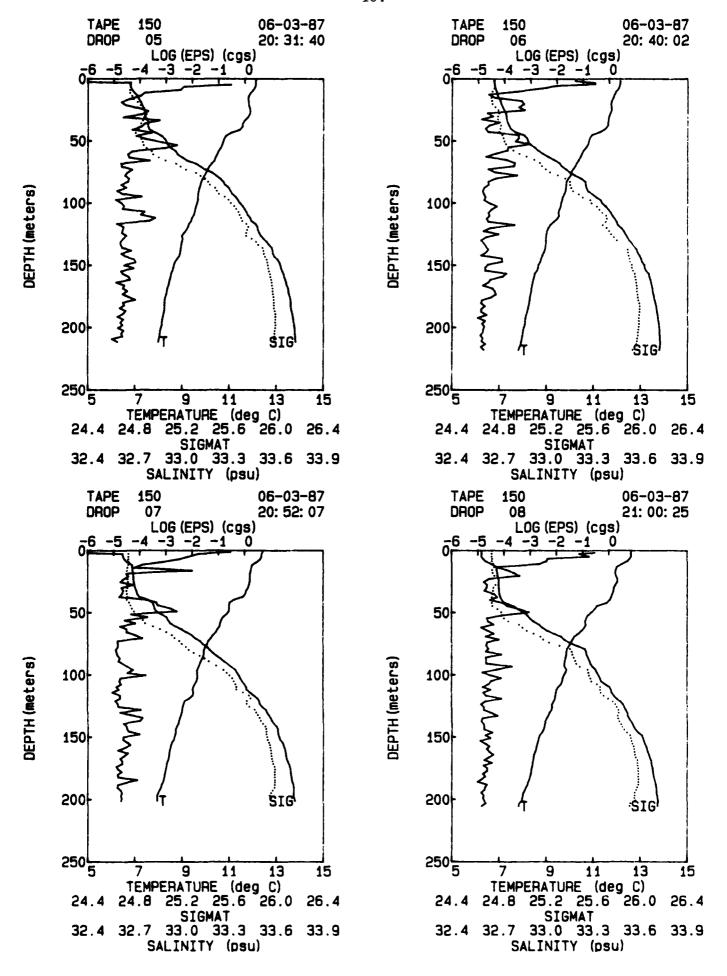


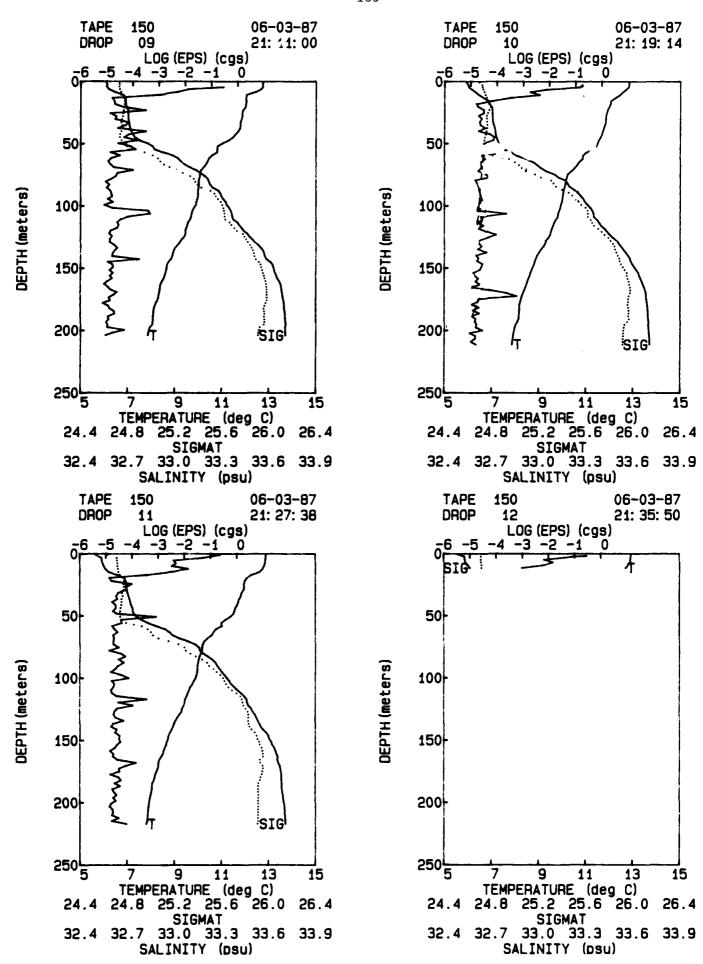




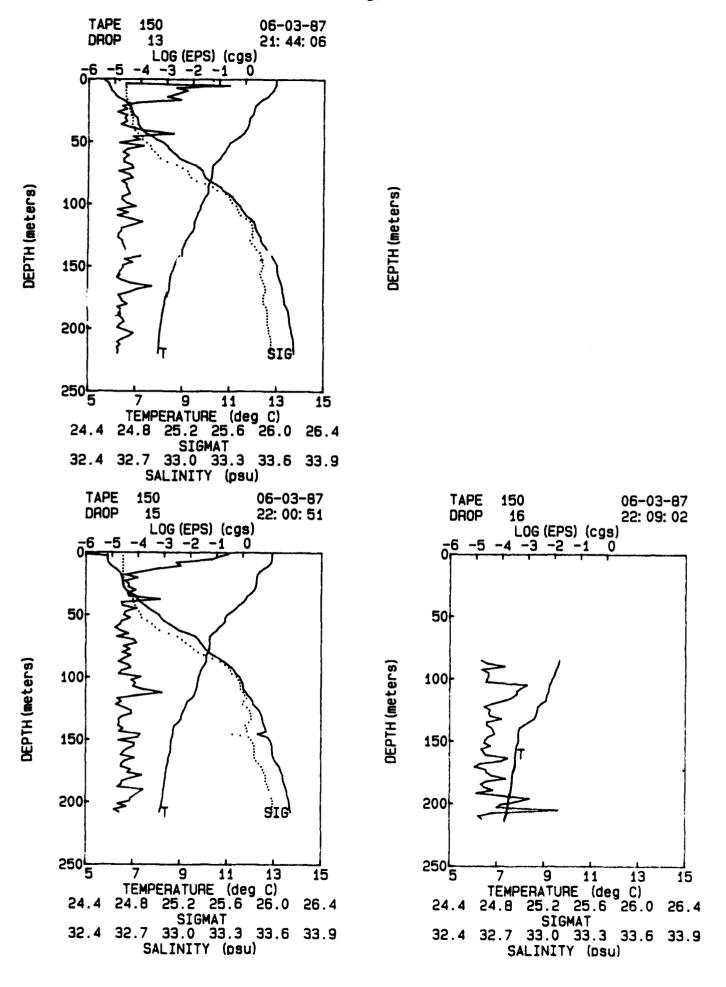
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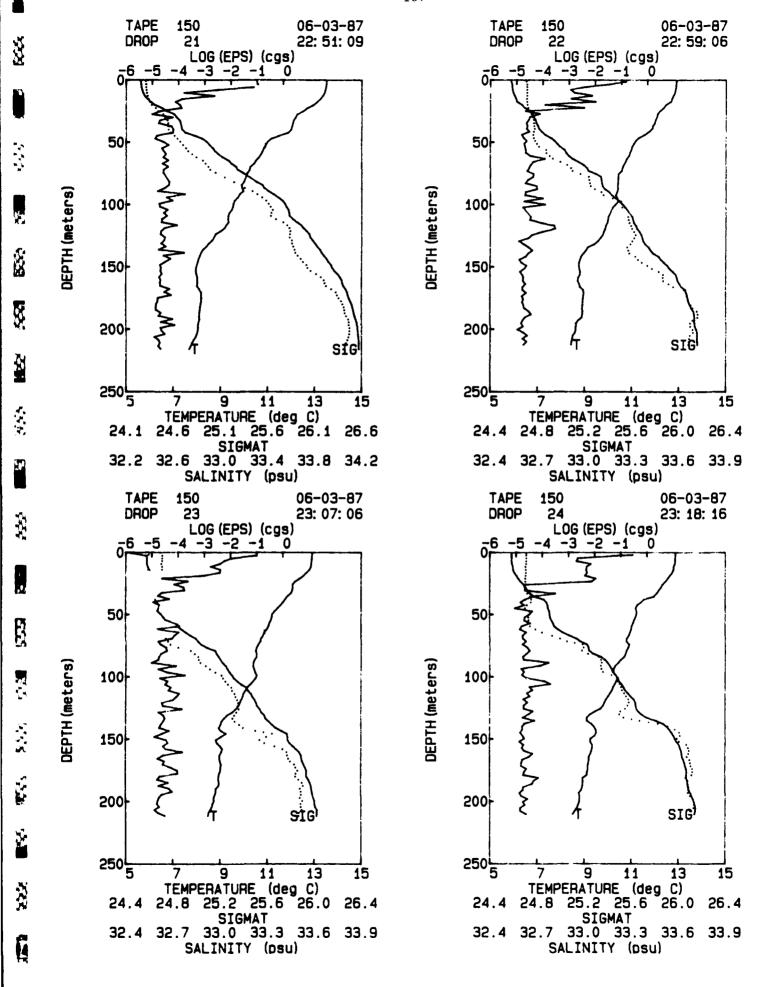


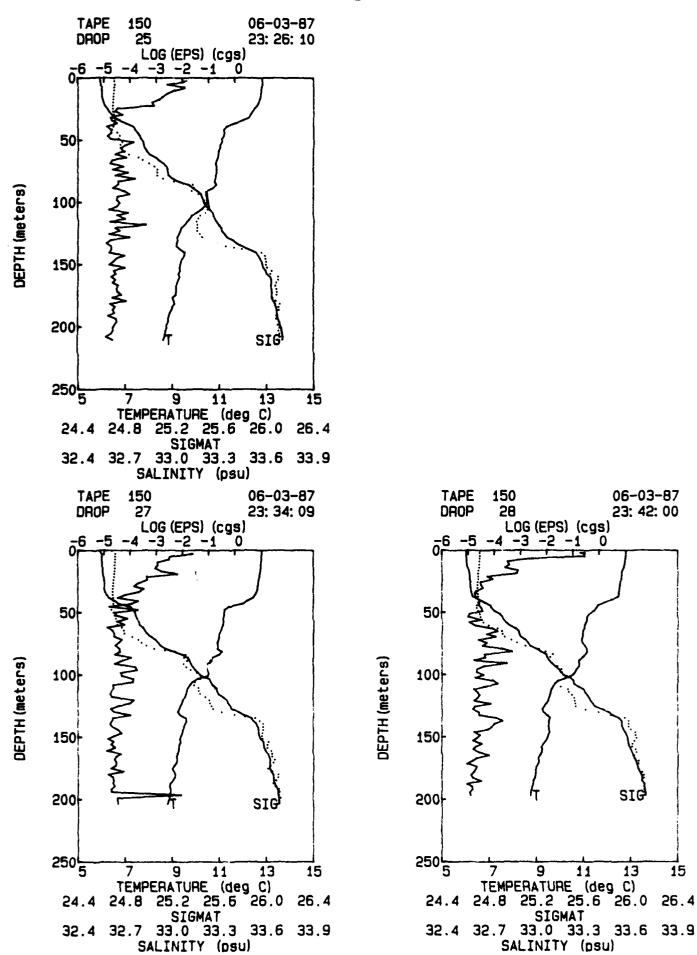


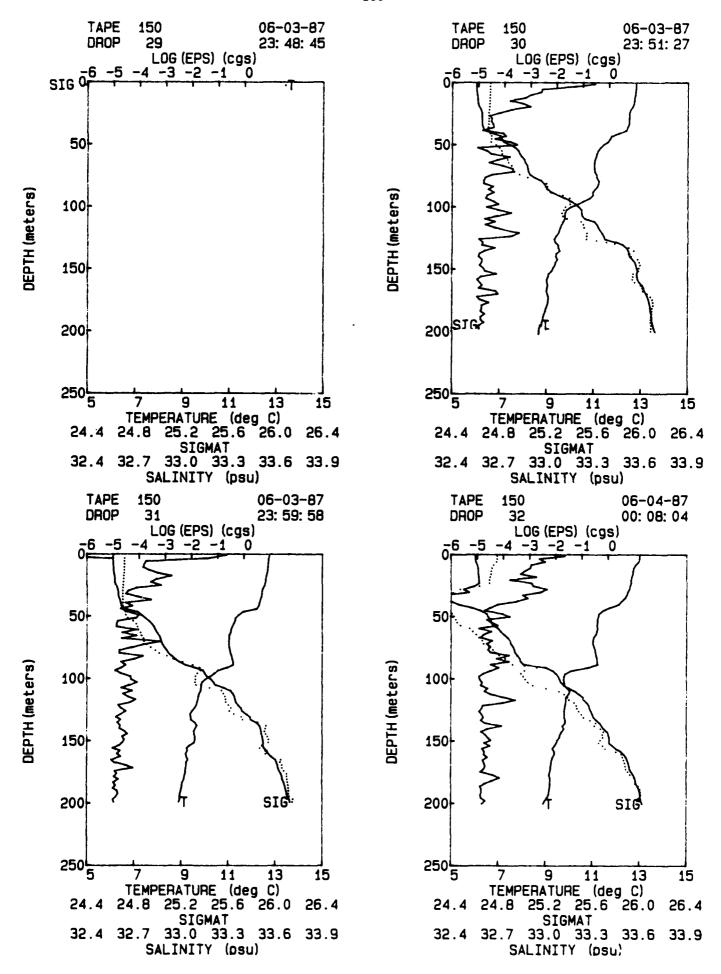


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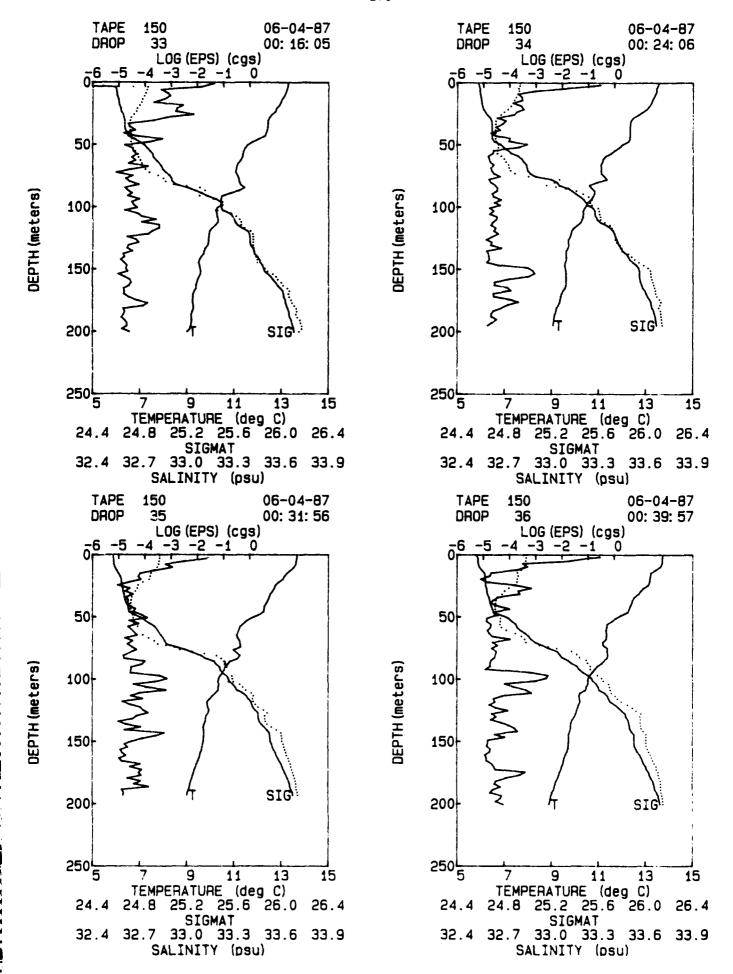


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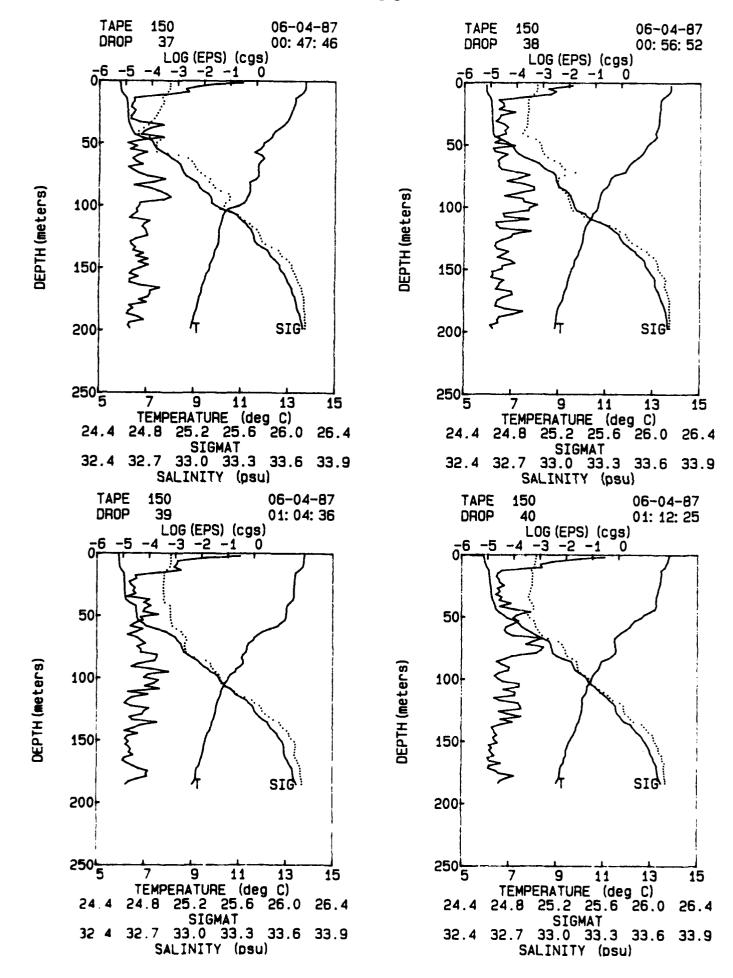
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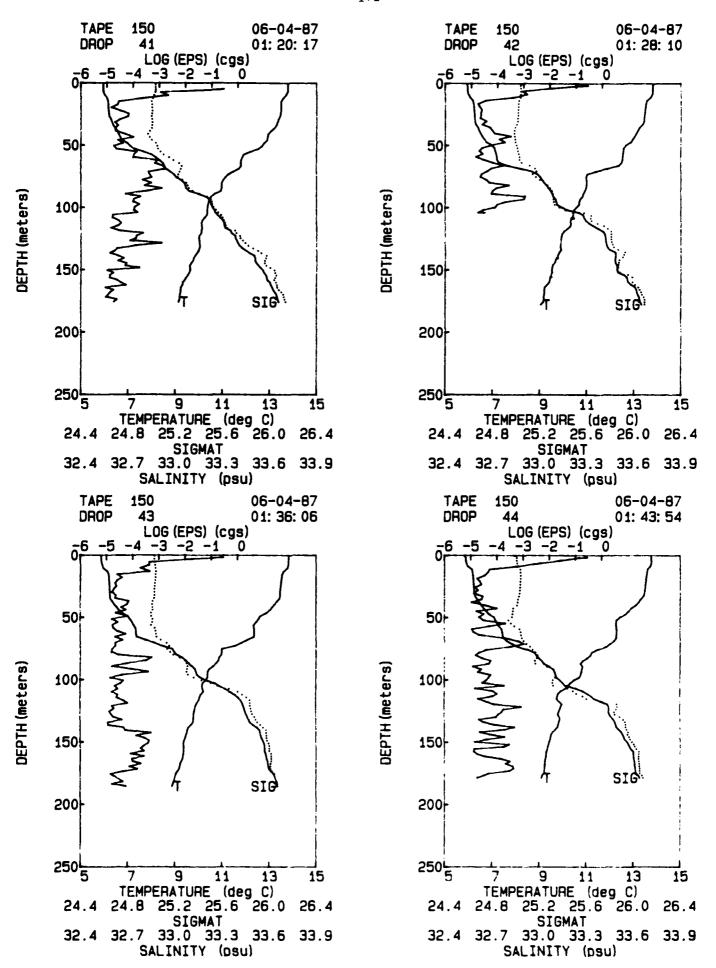
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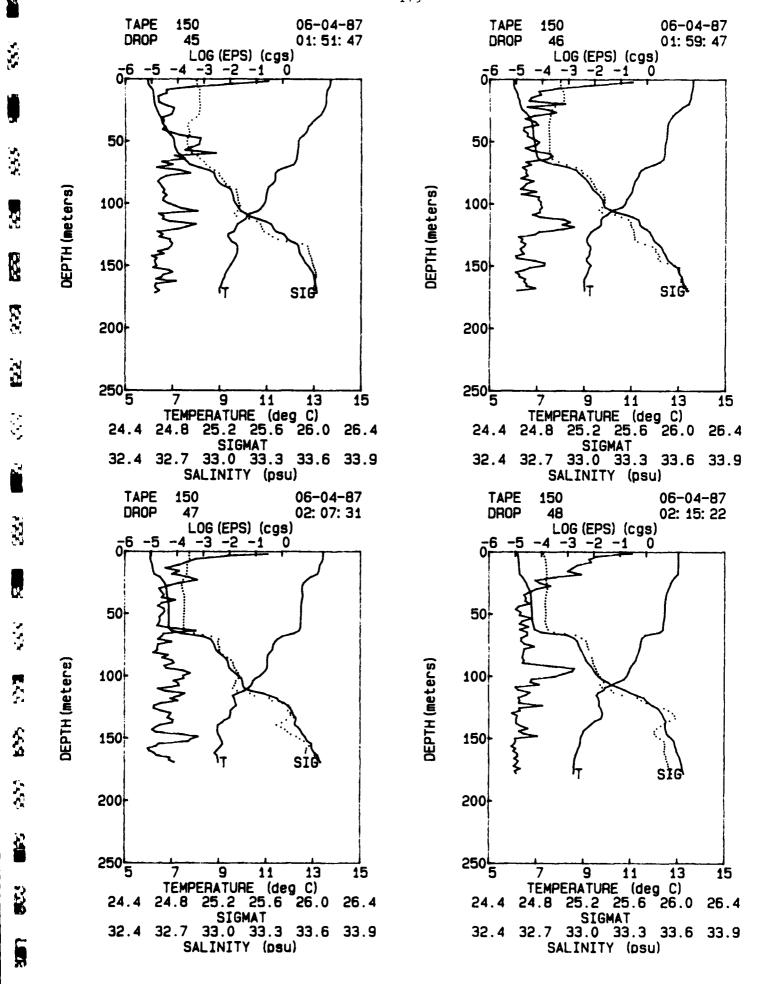
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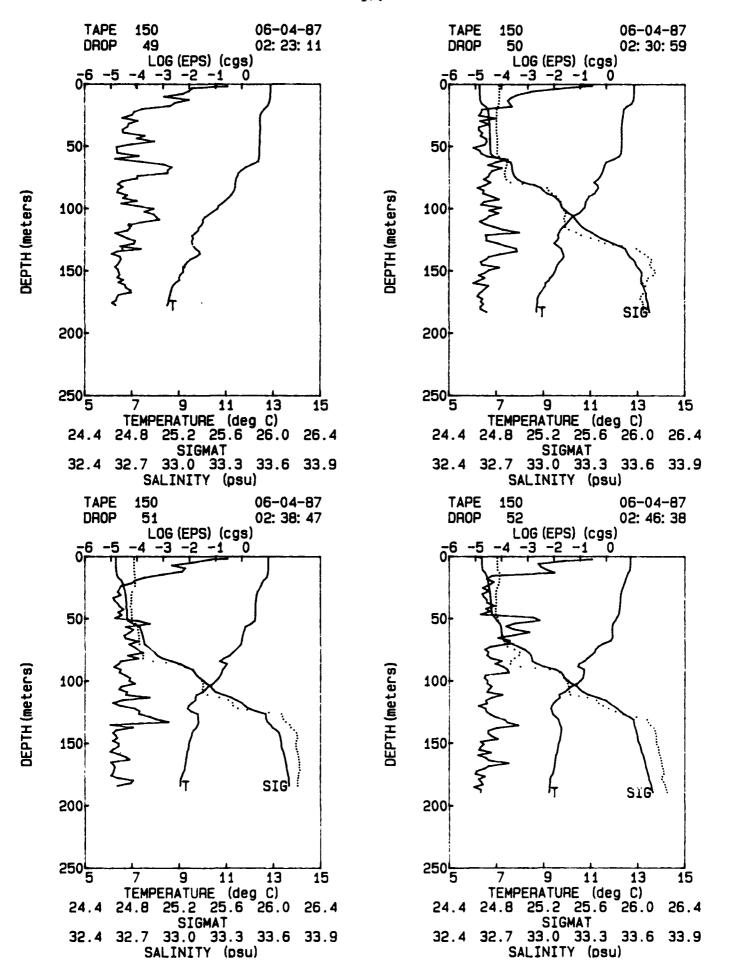


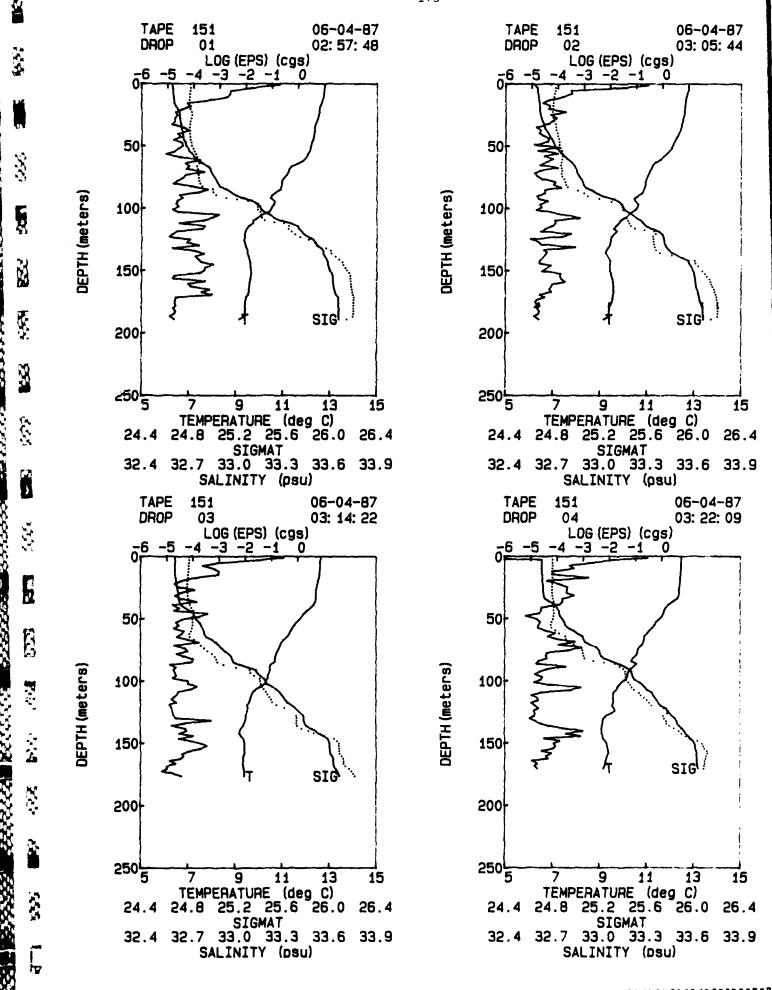
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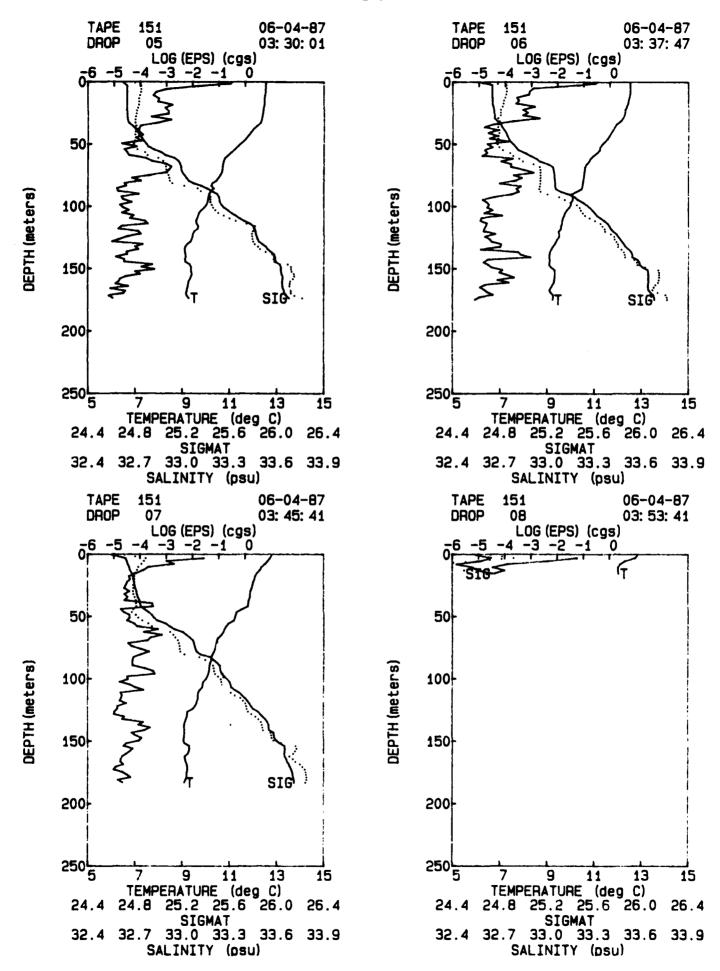


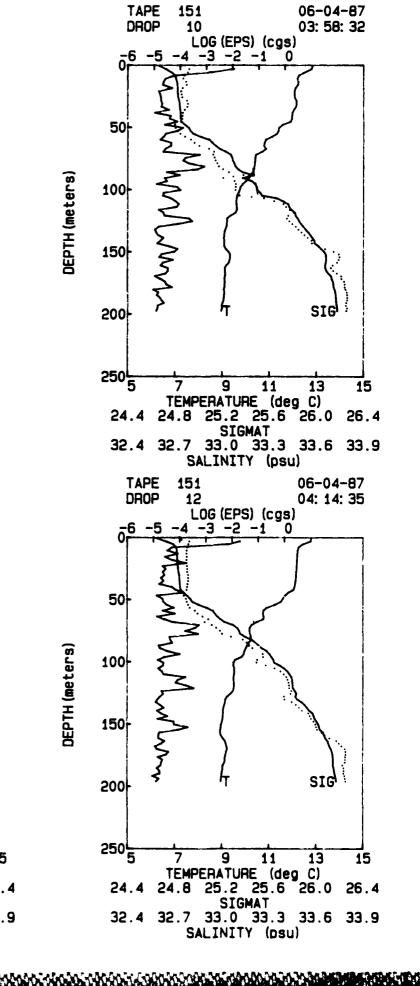


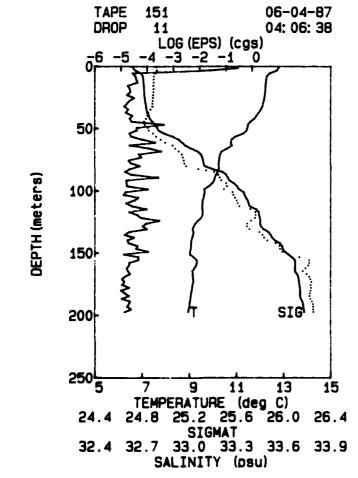










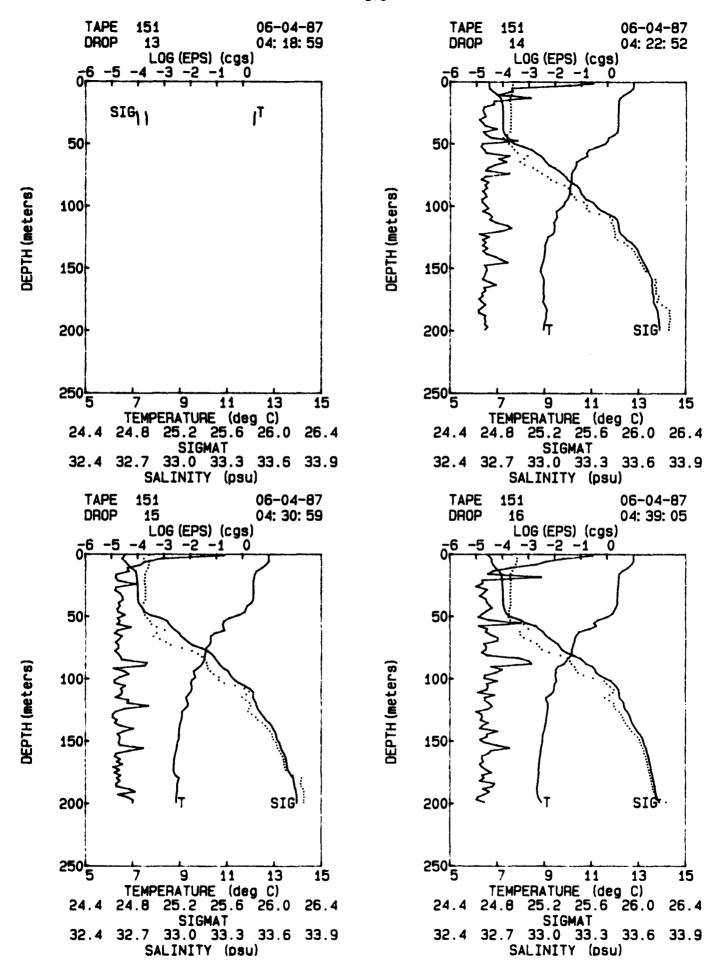


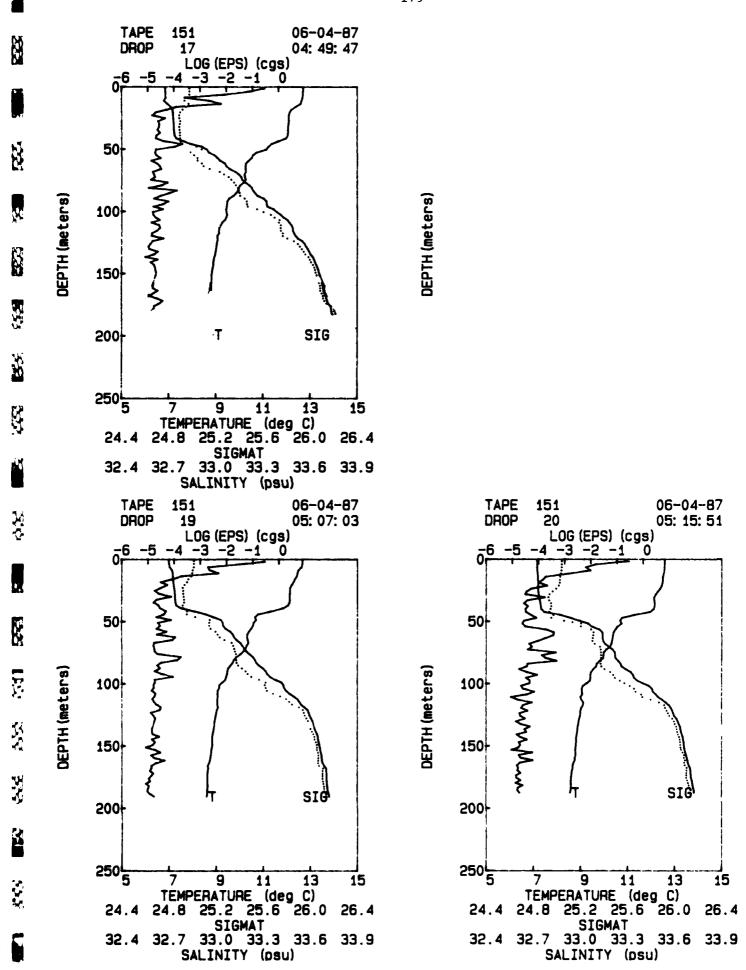
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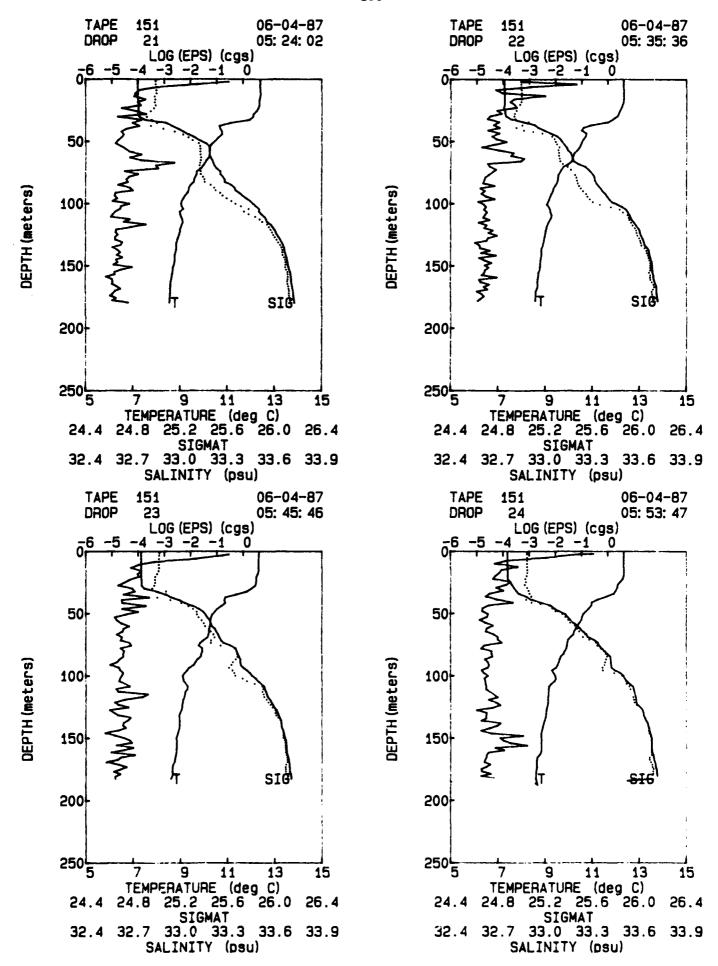
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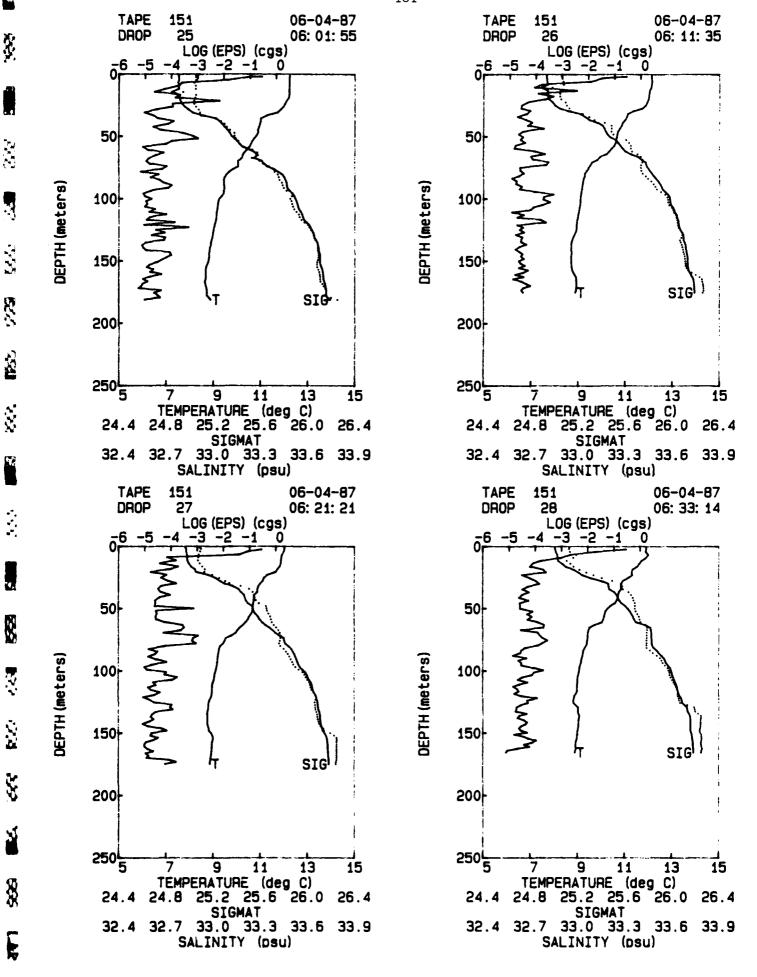
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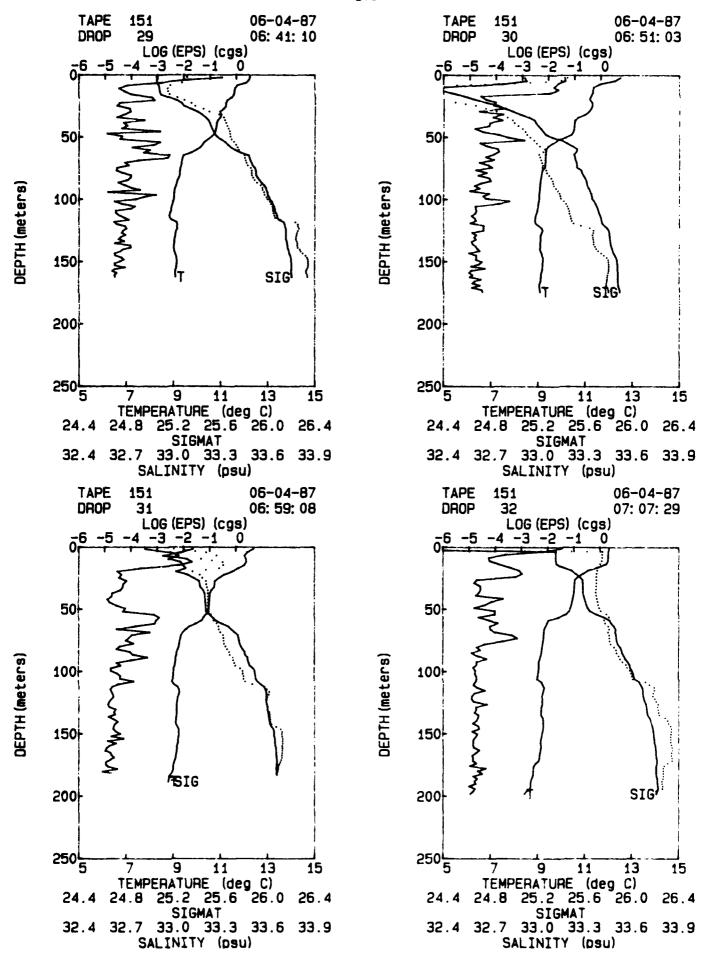
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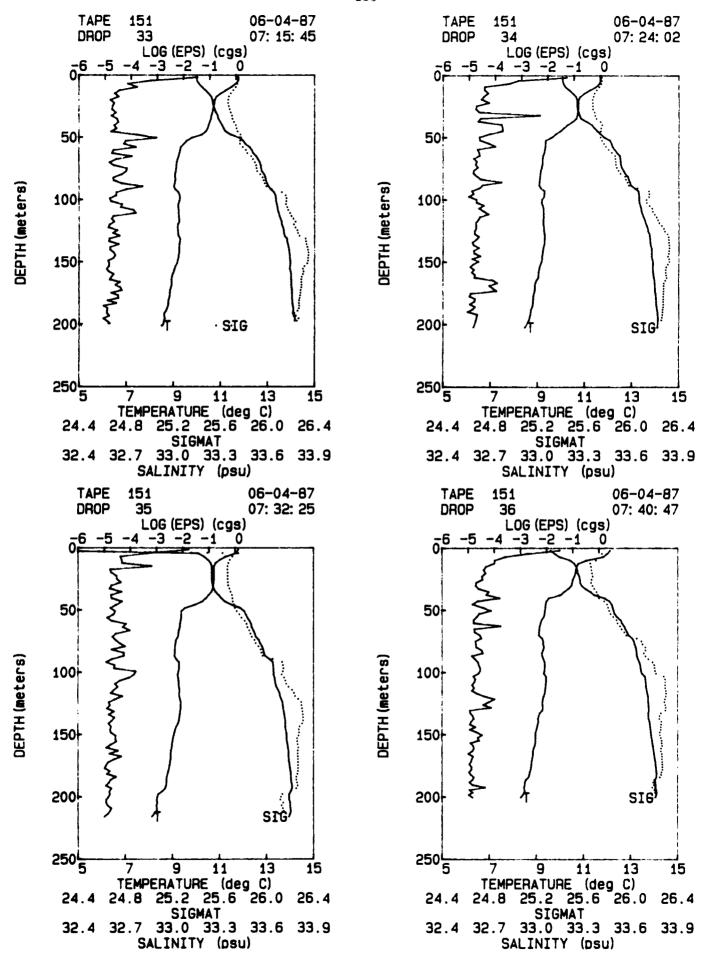


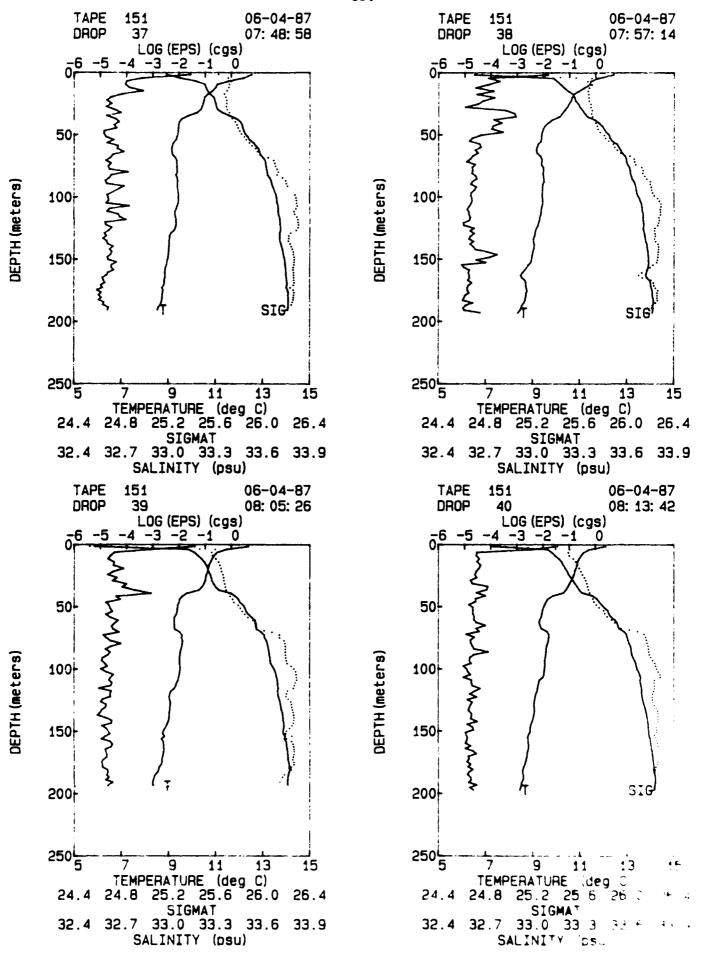




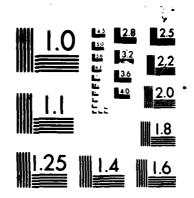


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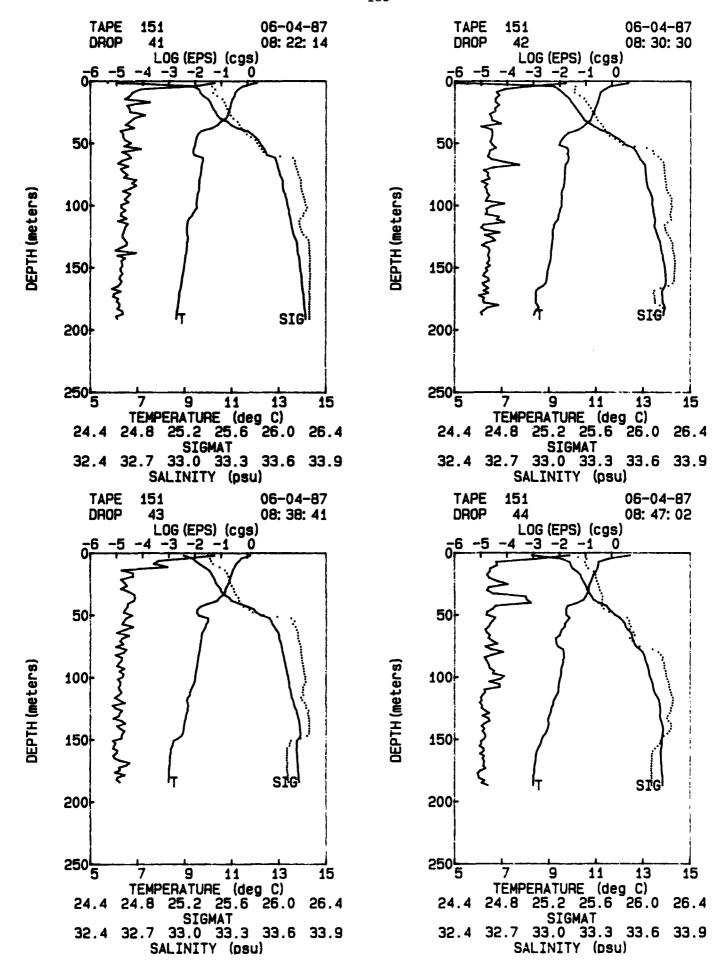




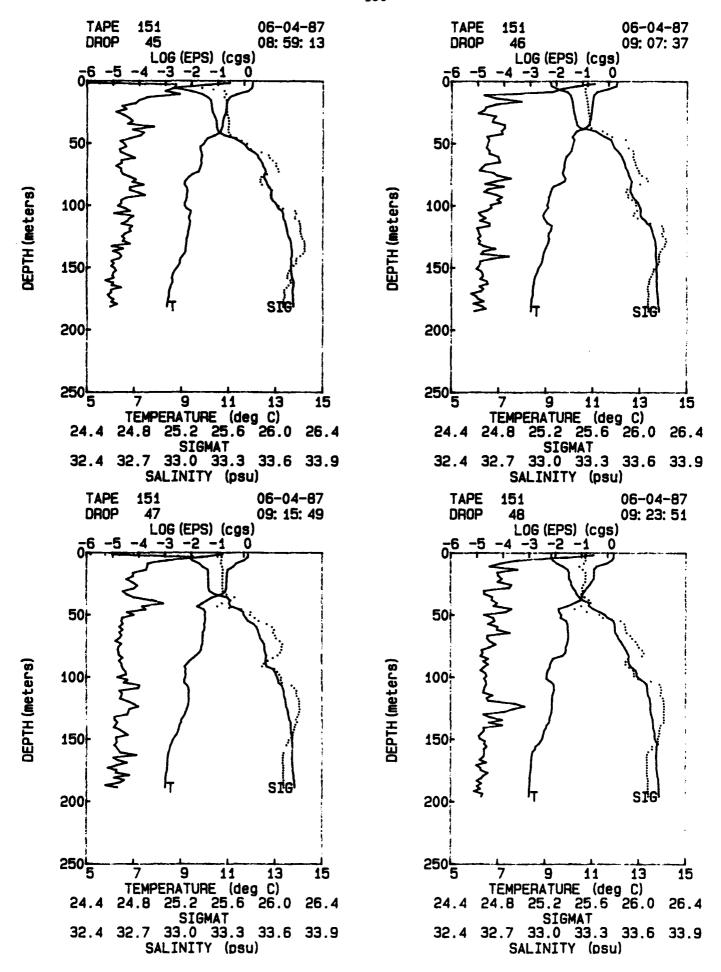
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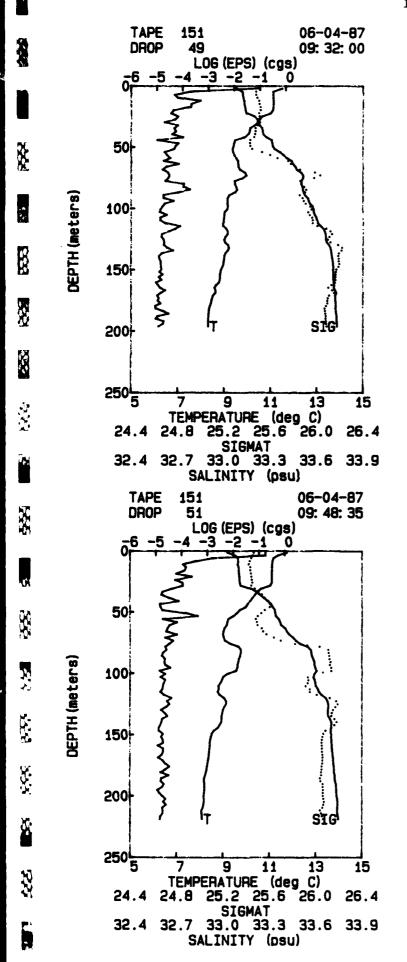


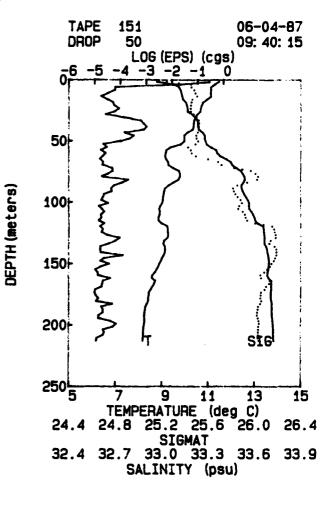
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

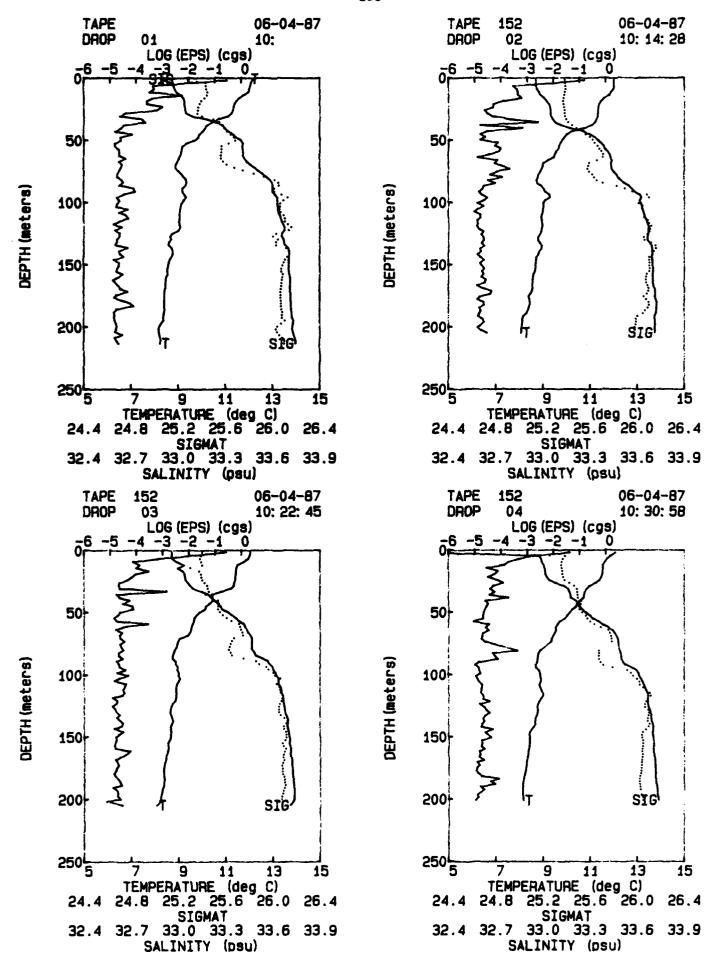


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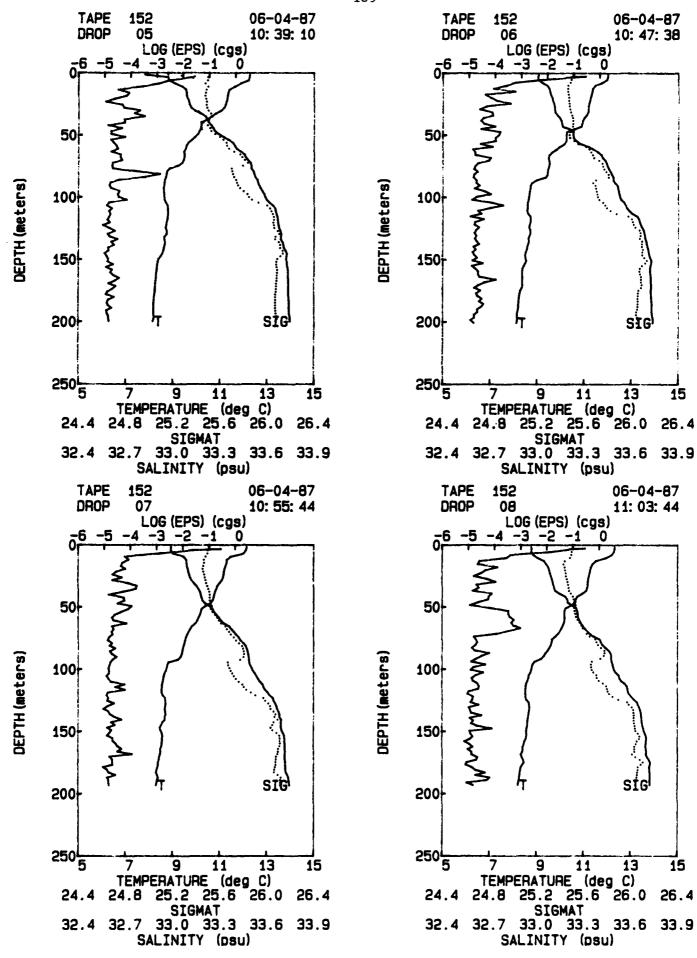


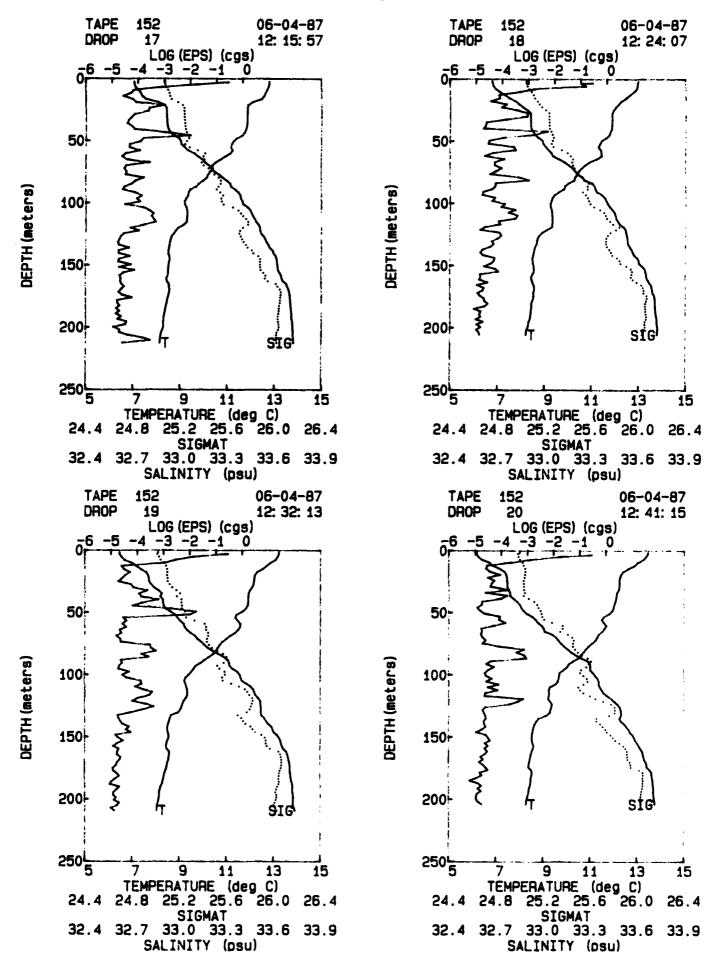


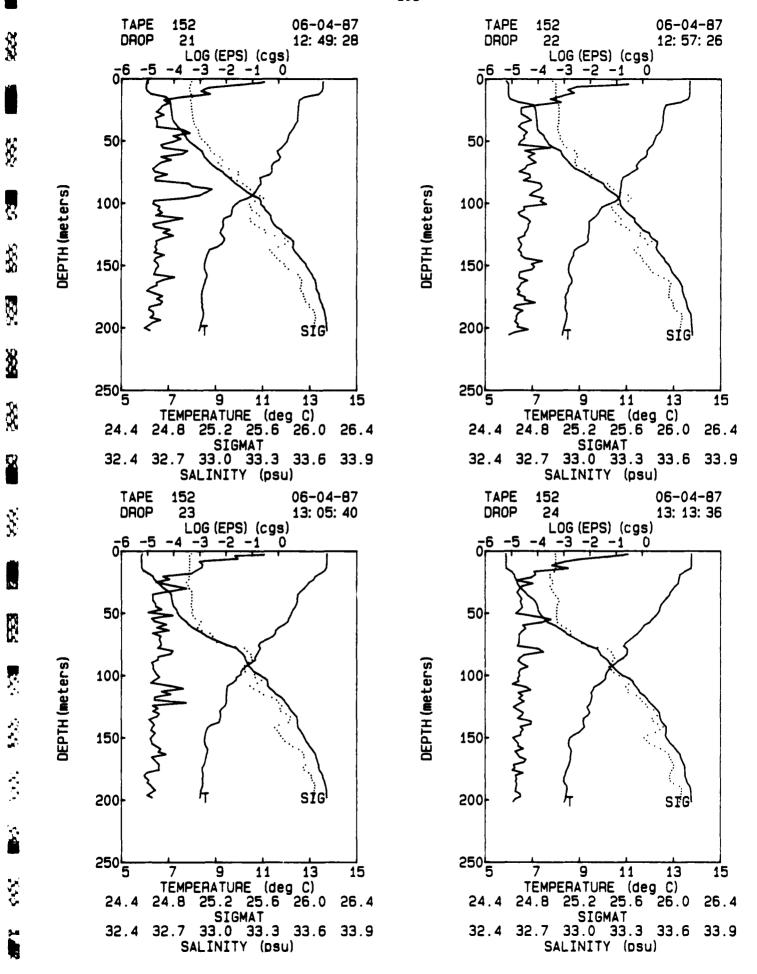


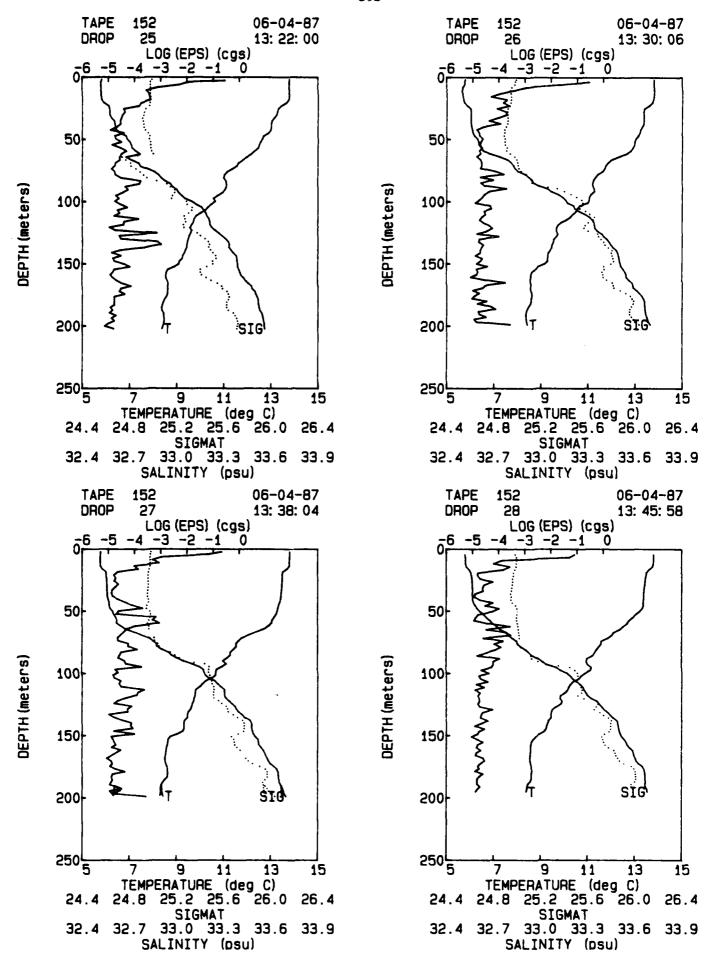
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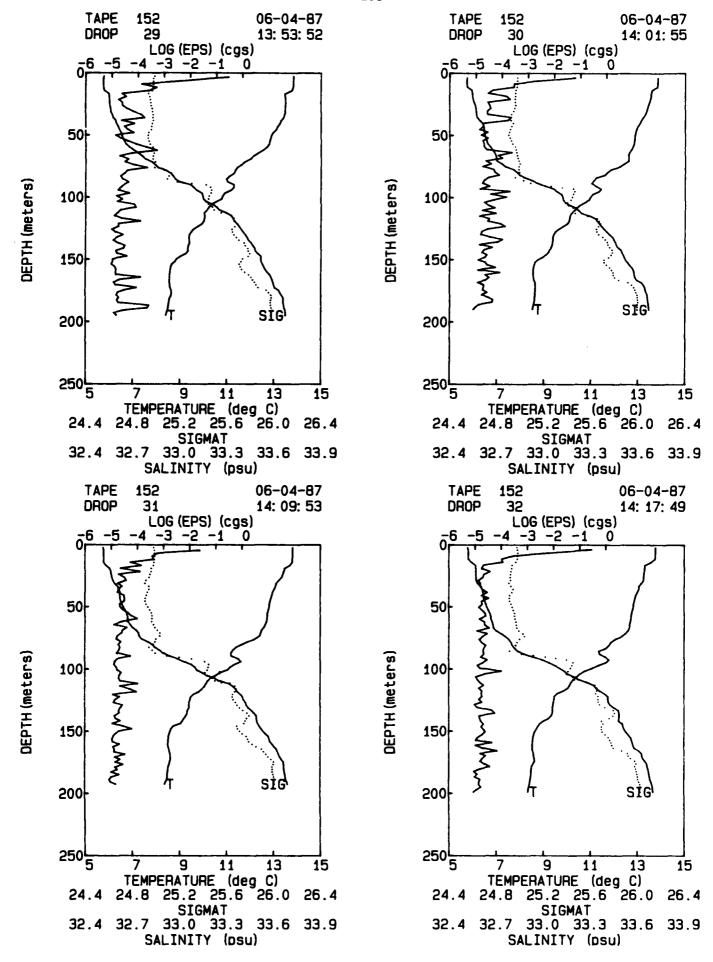


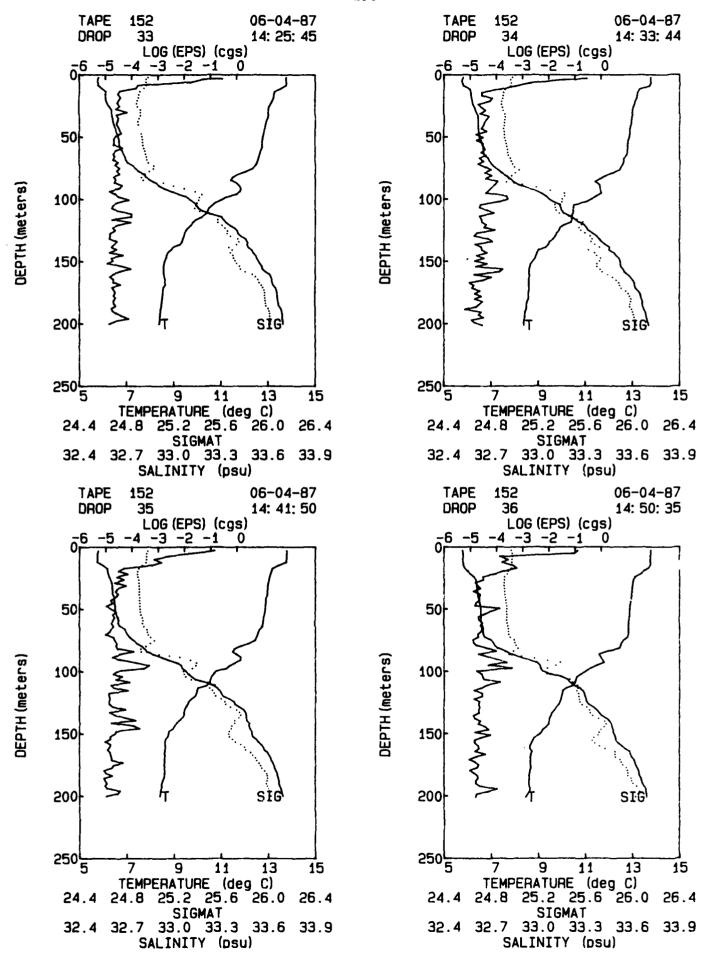




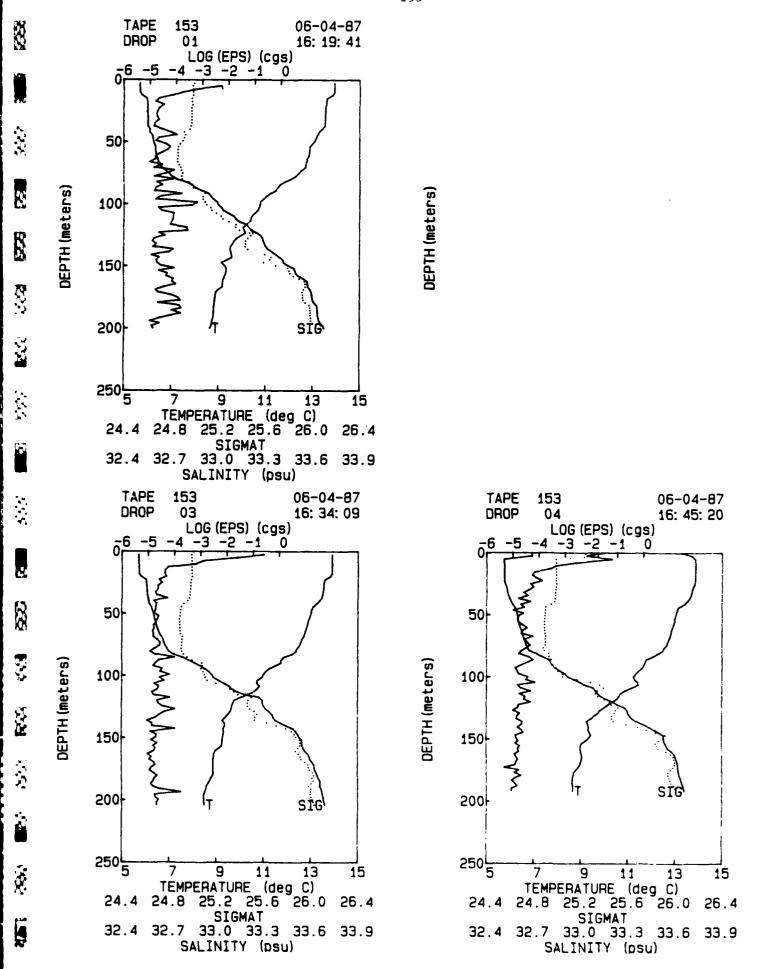


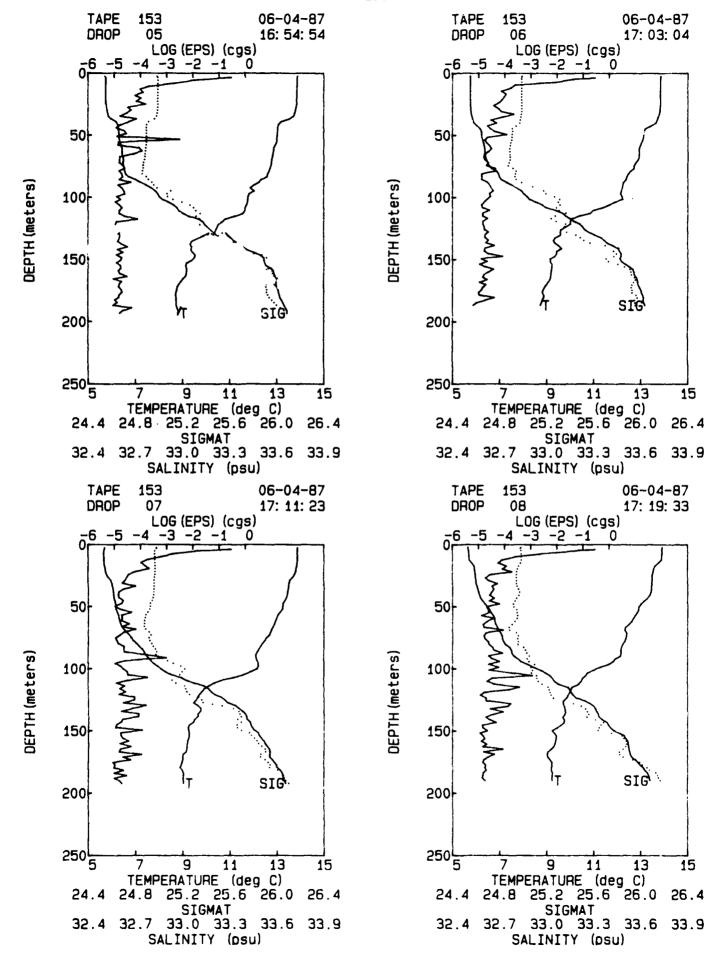
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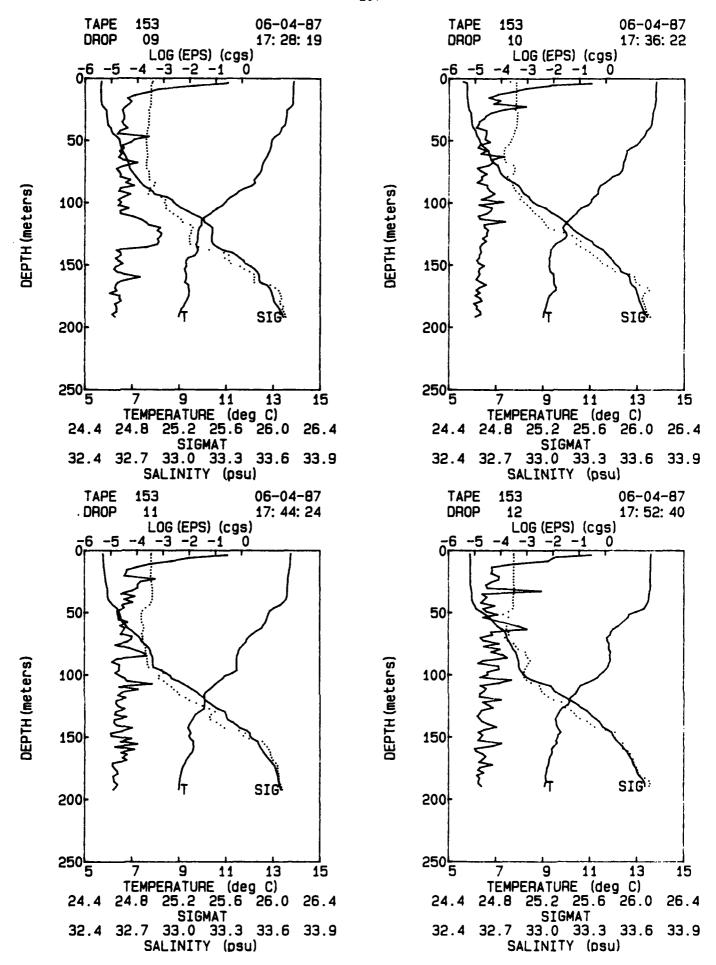


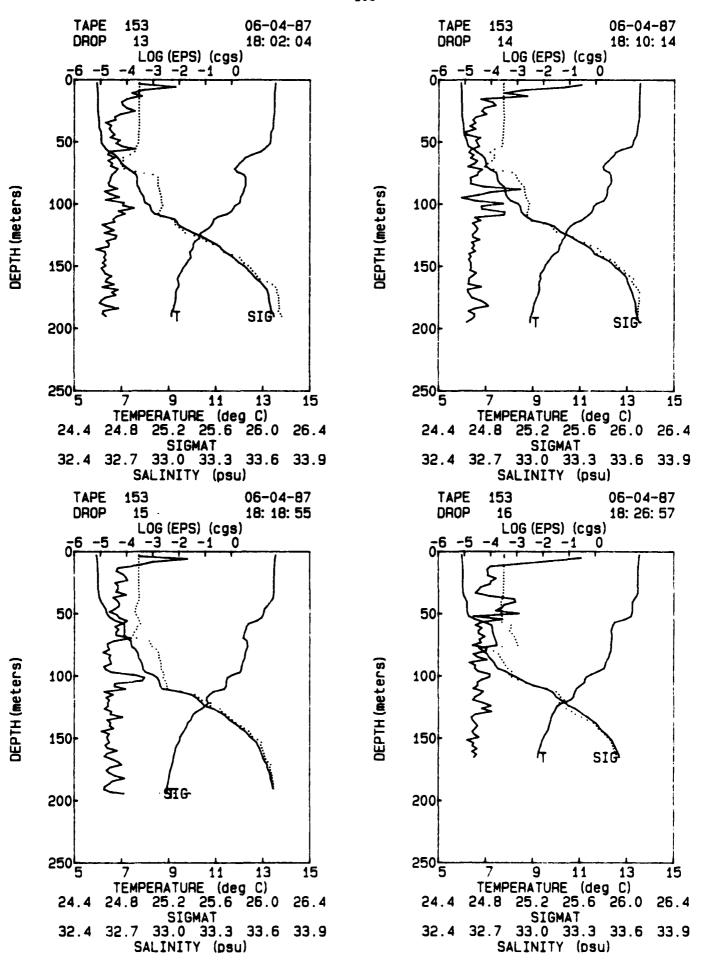


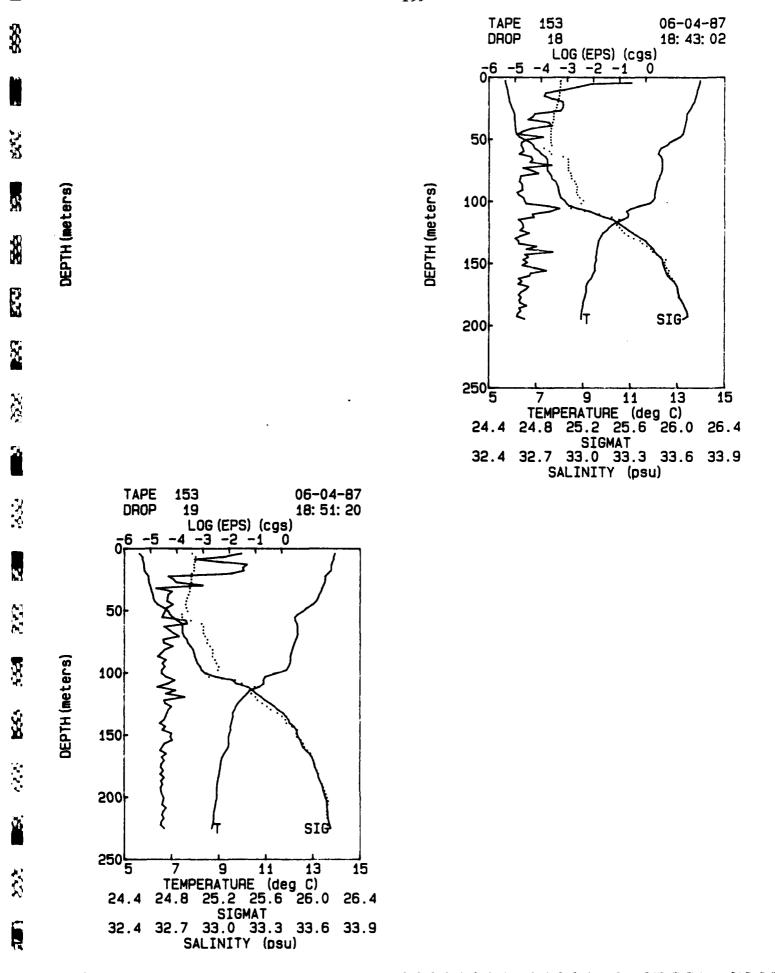
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TRANSECT 5 **10.7**

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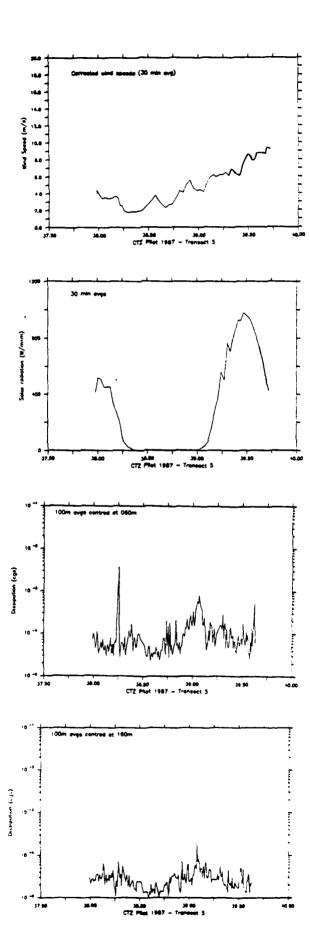
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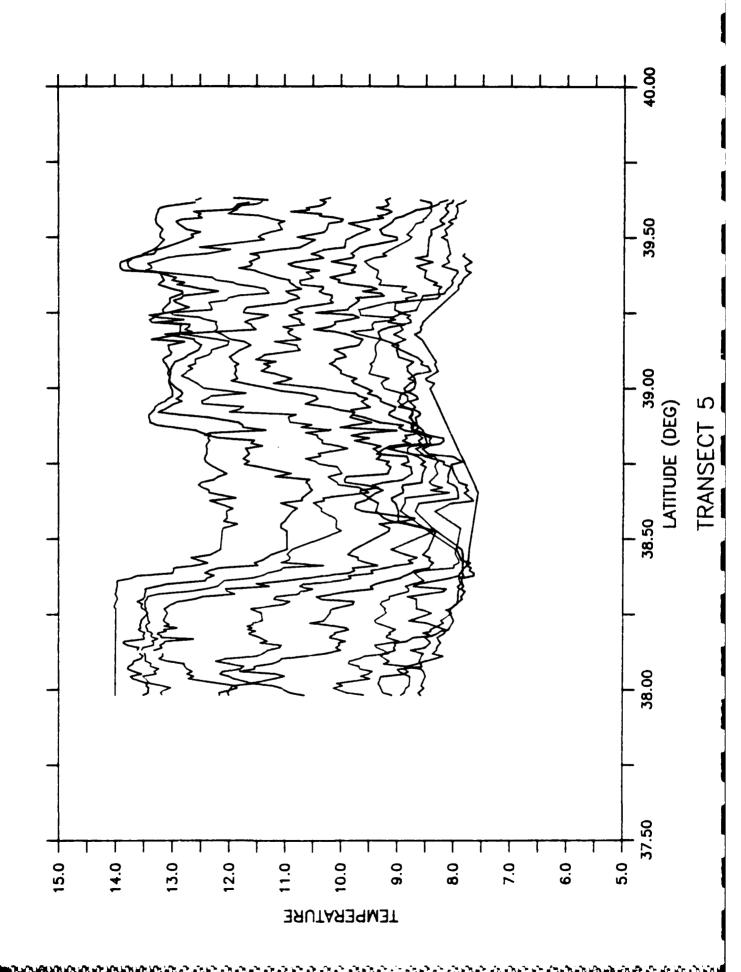
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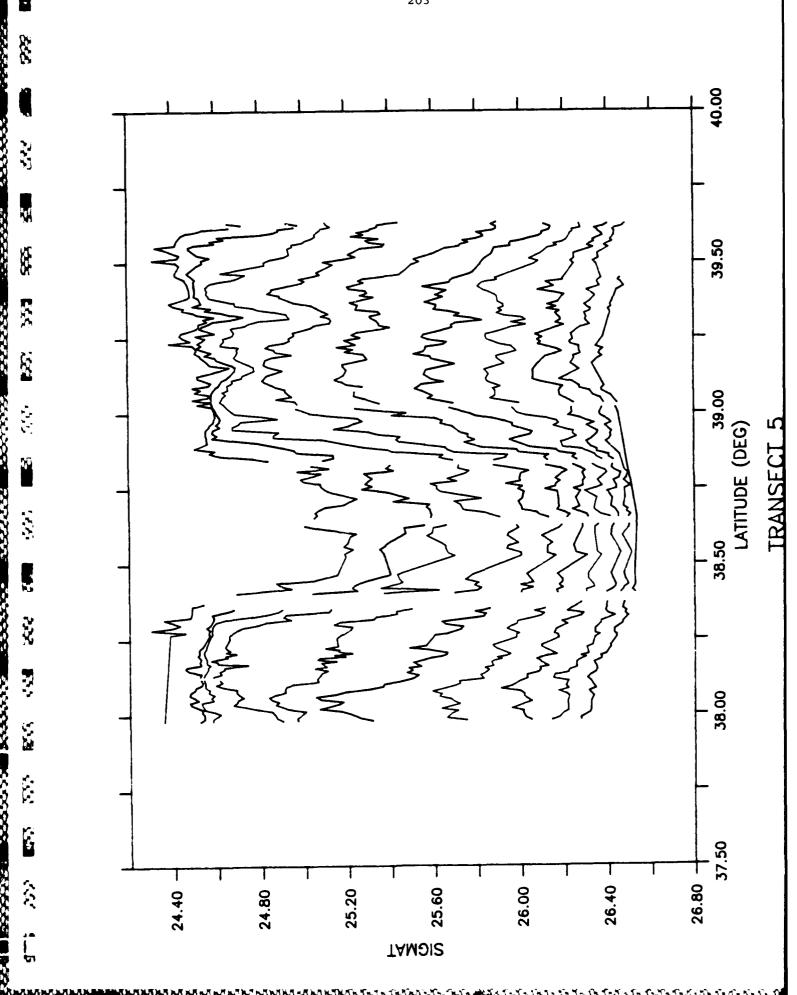
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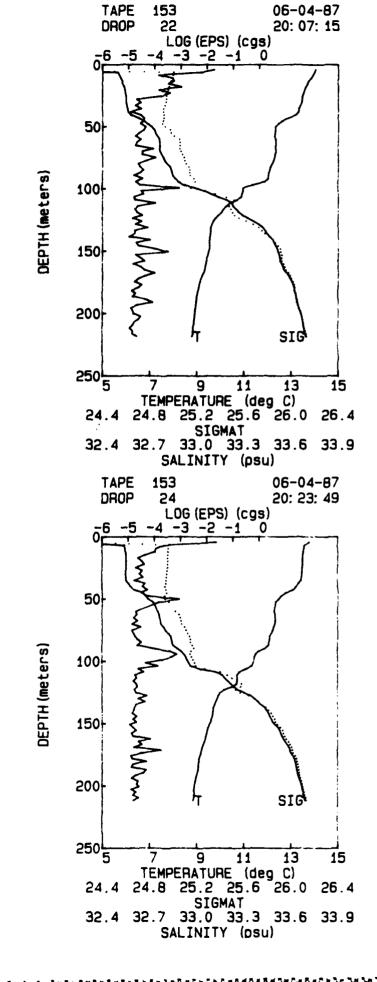
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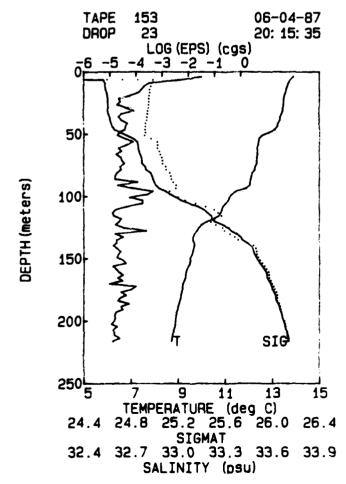
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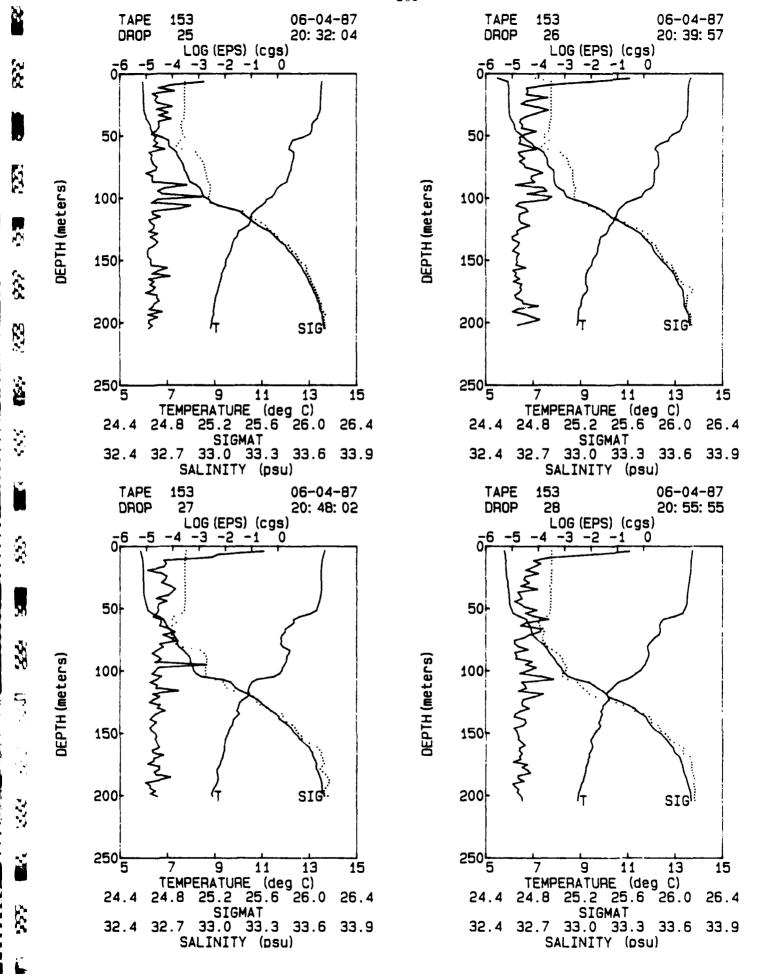


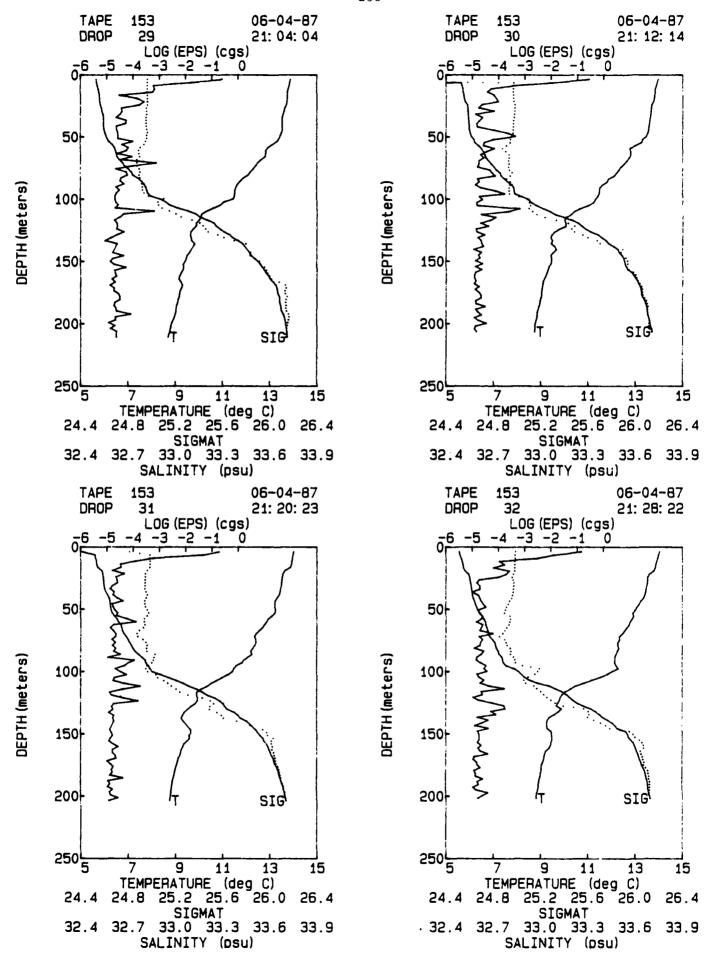




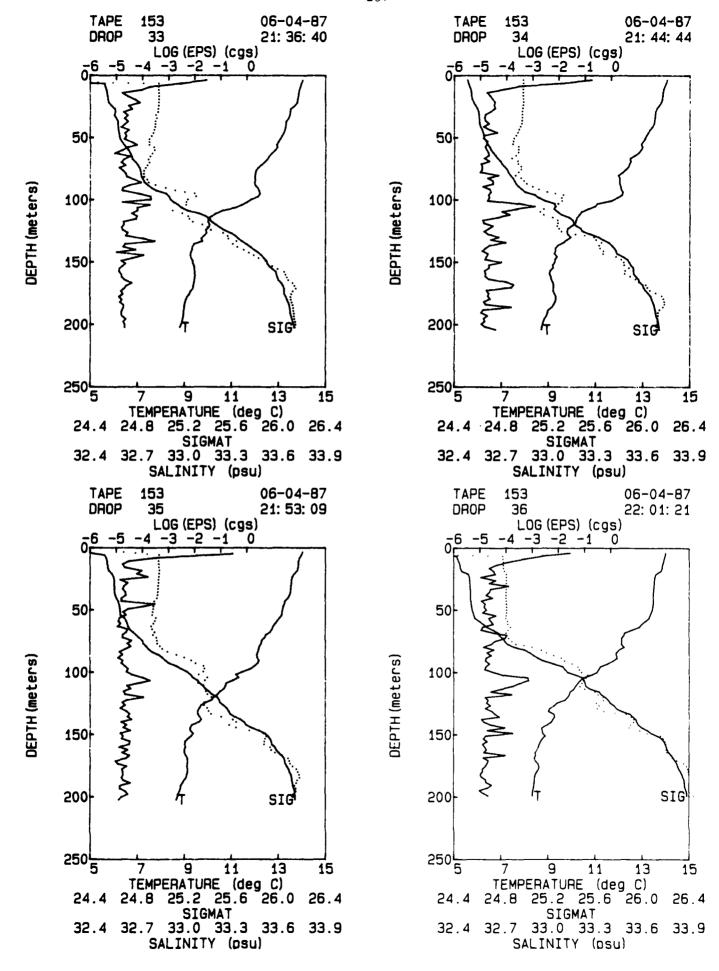


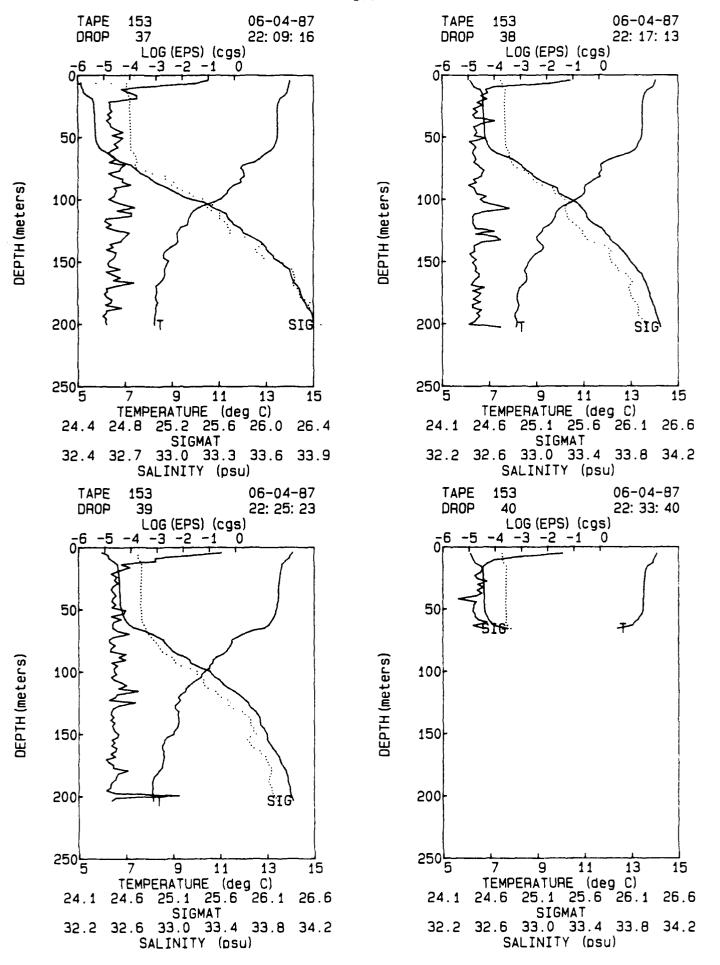


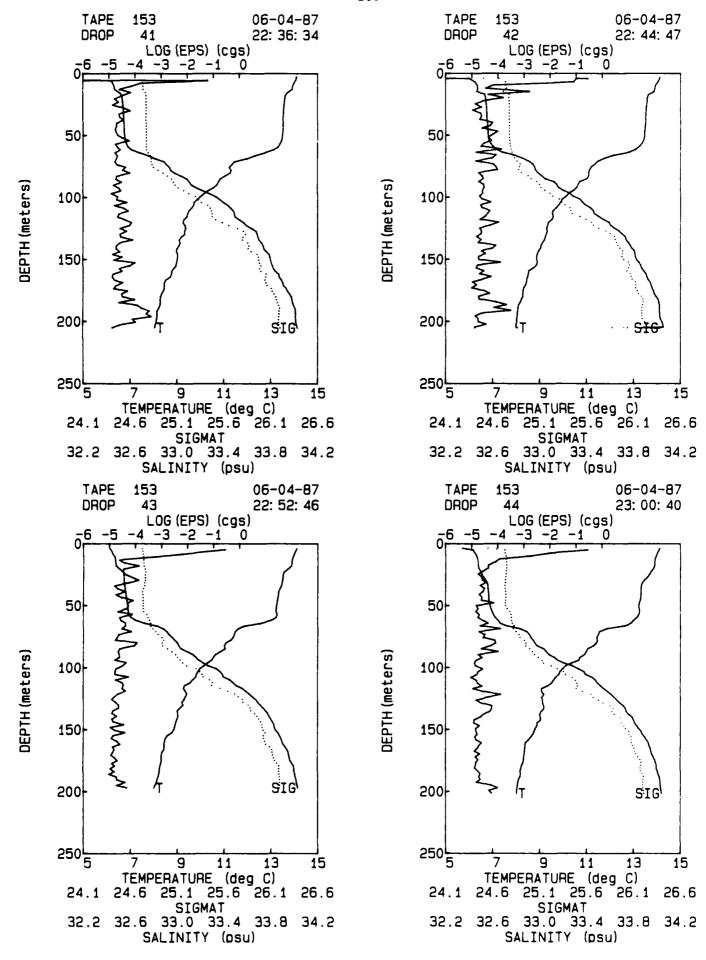


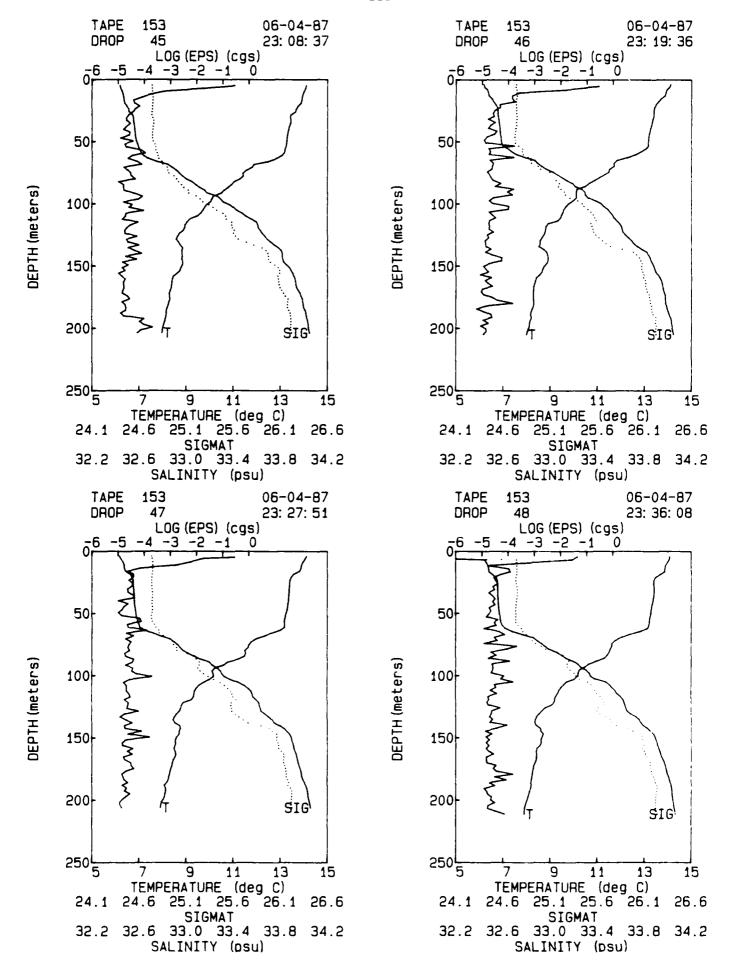


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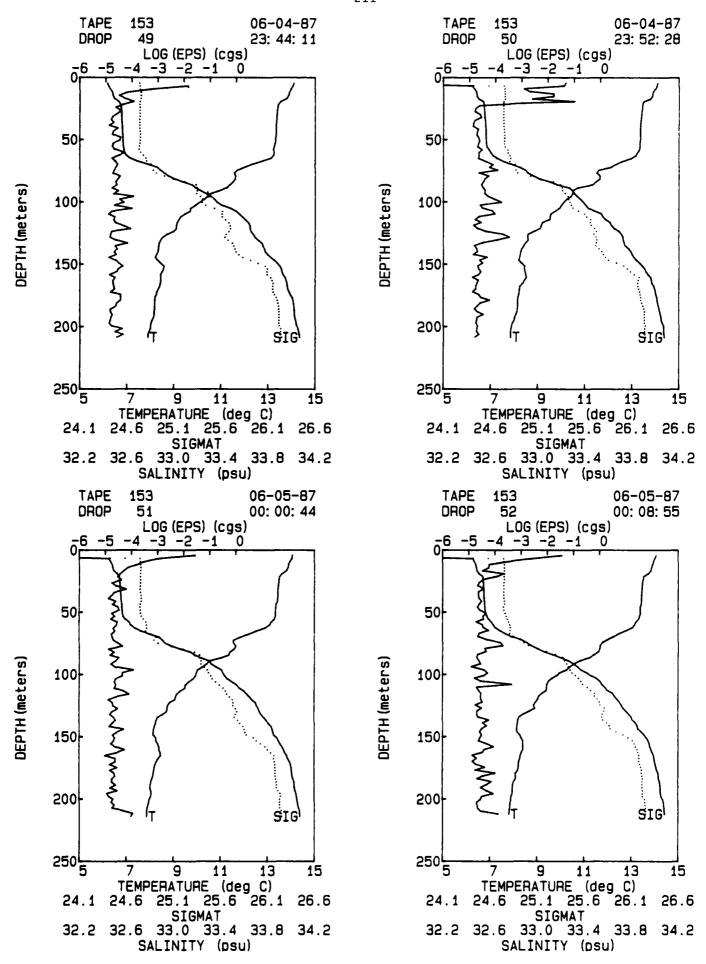
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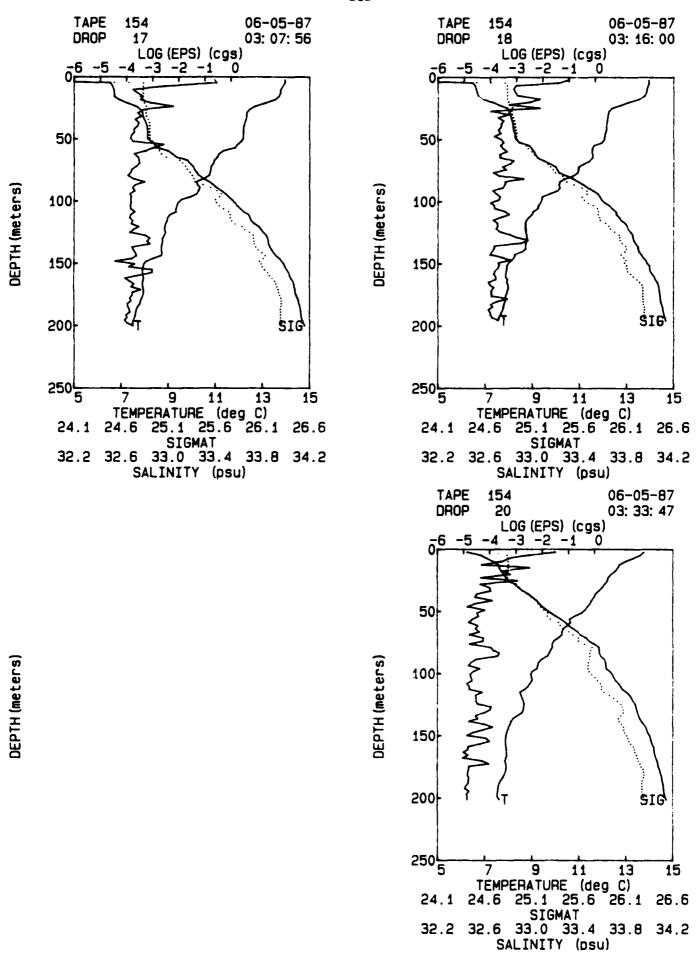
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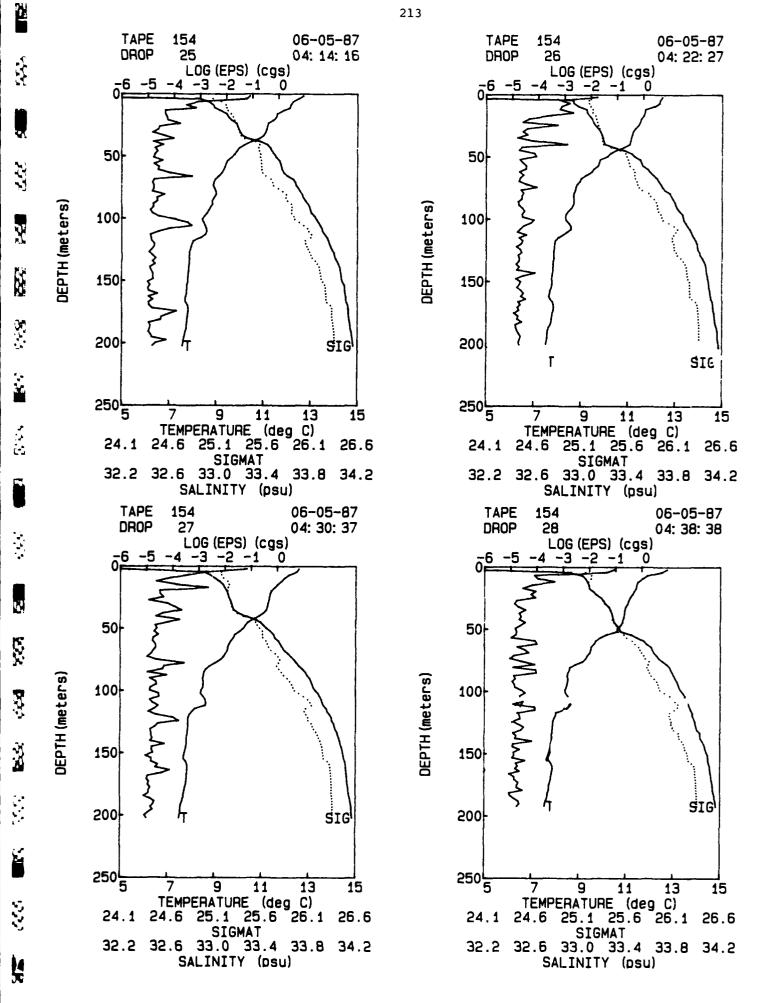
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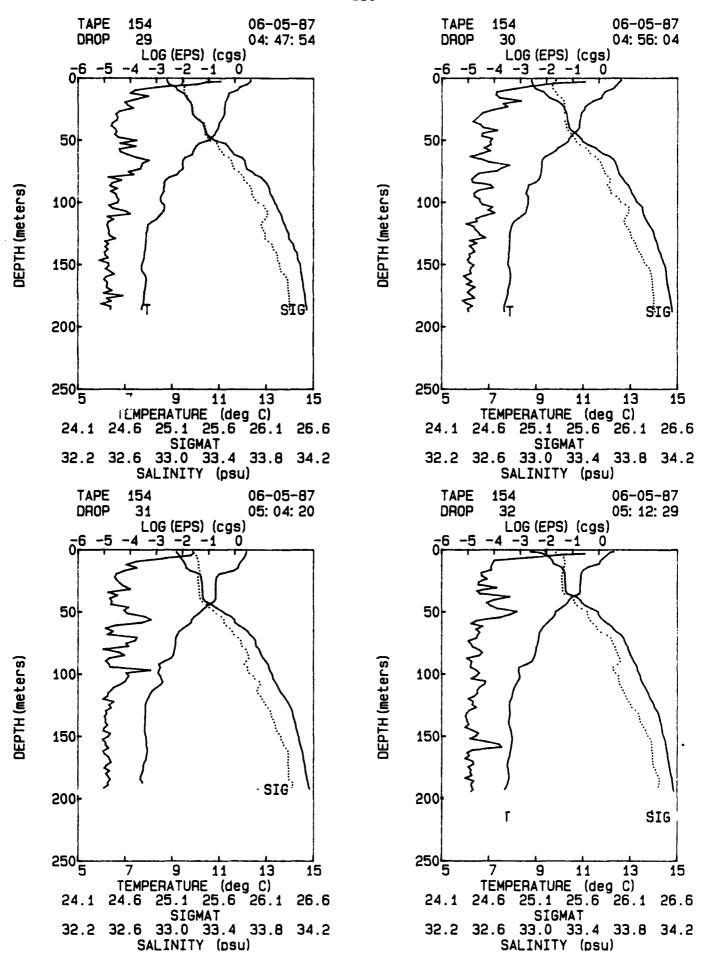
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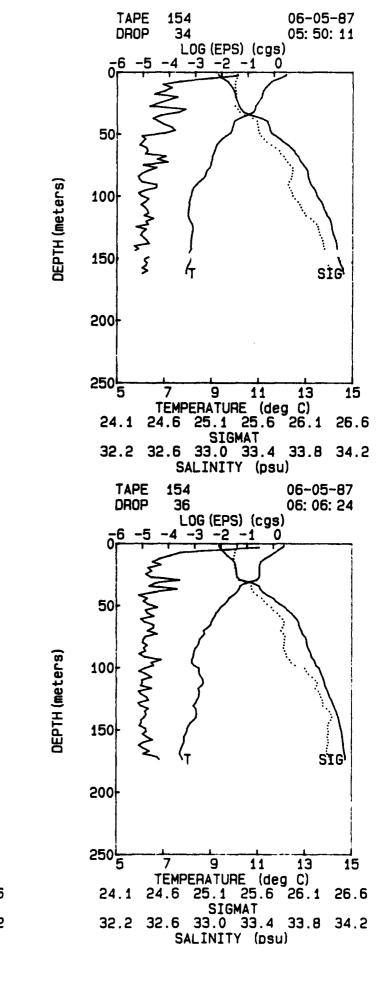
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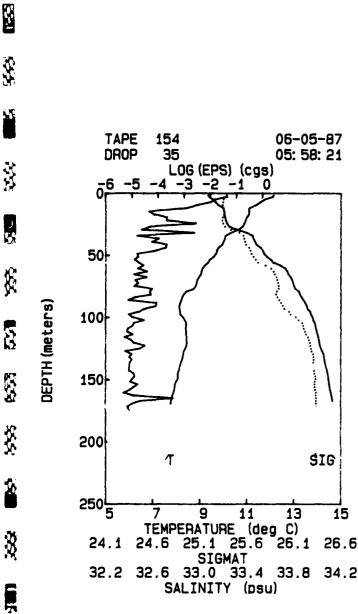




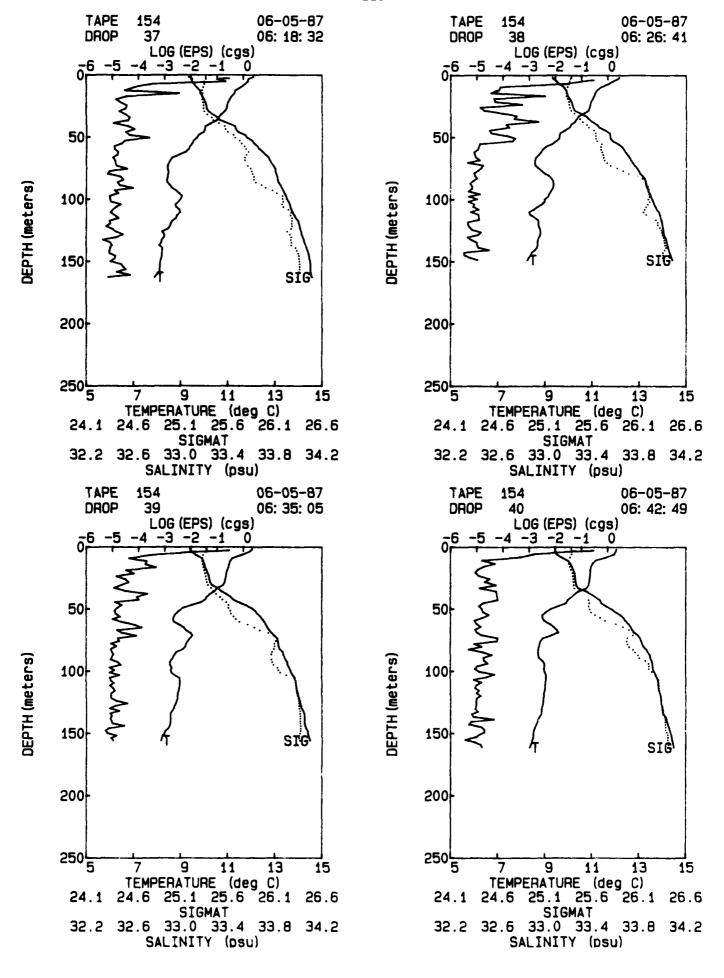


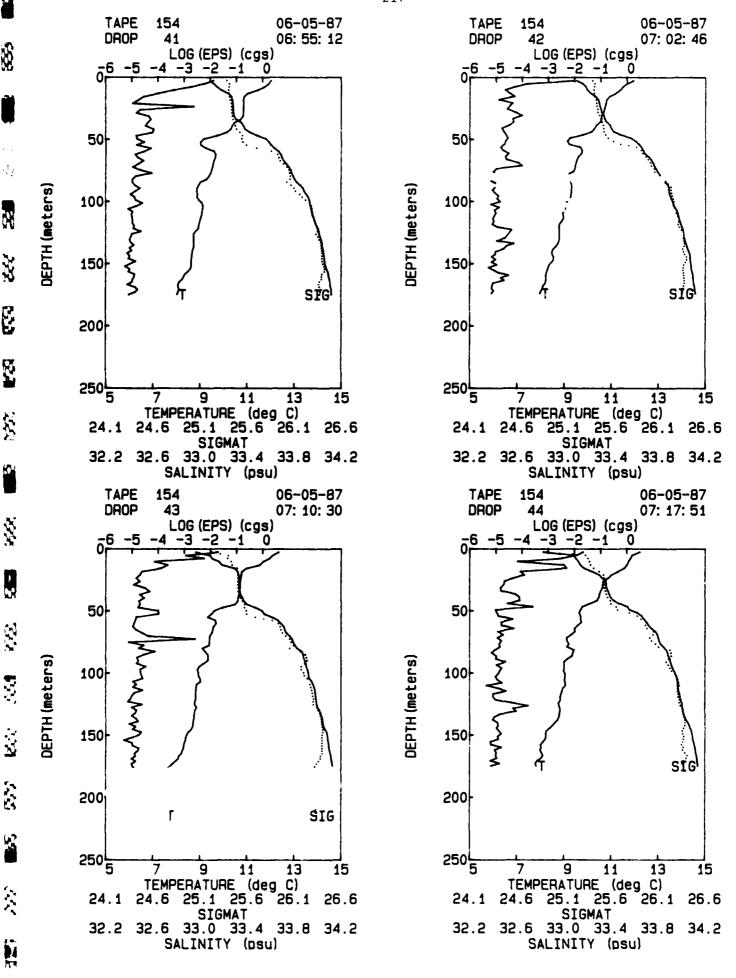


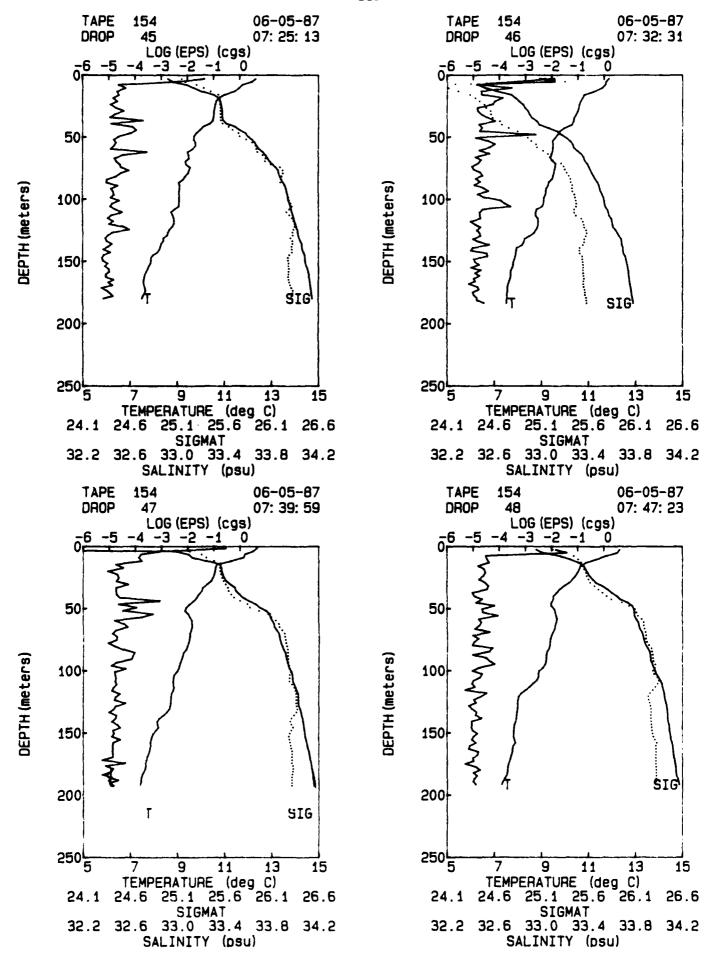


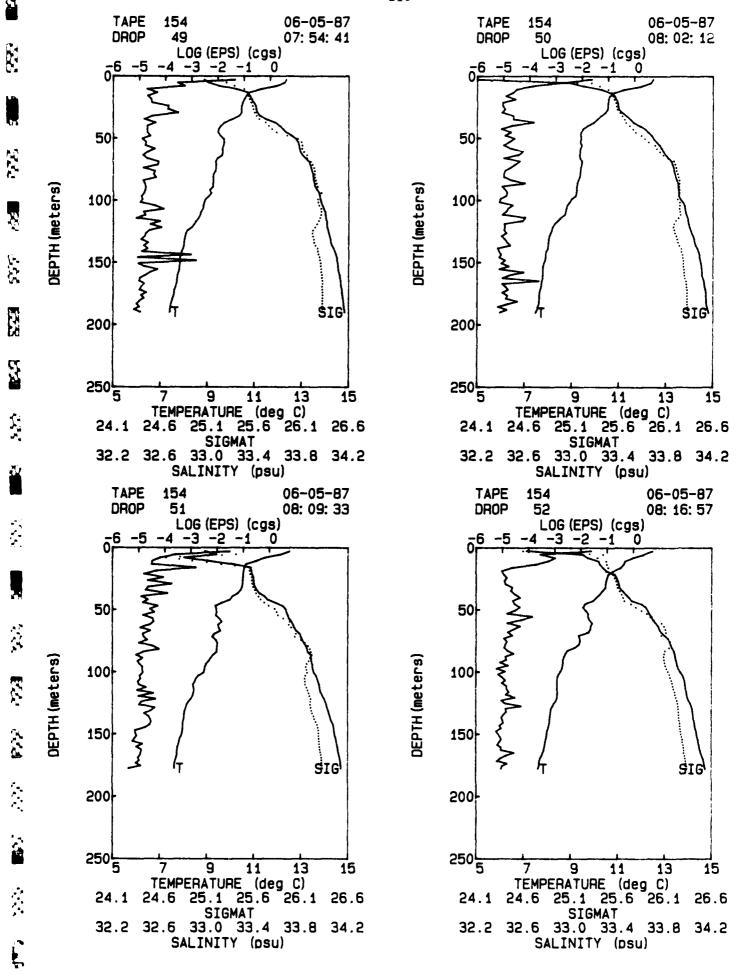


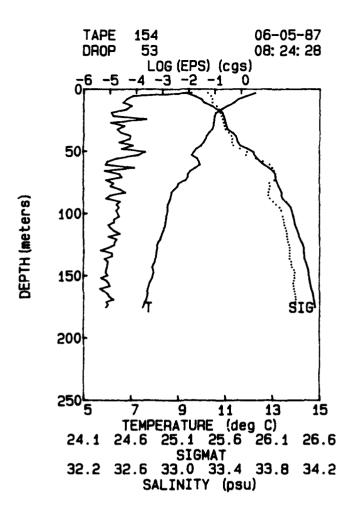
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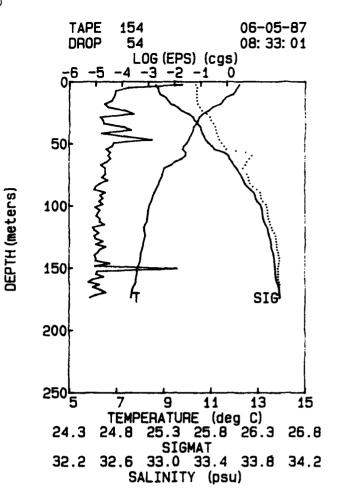








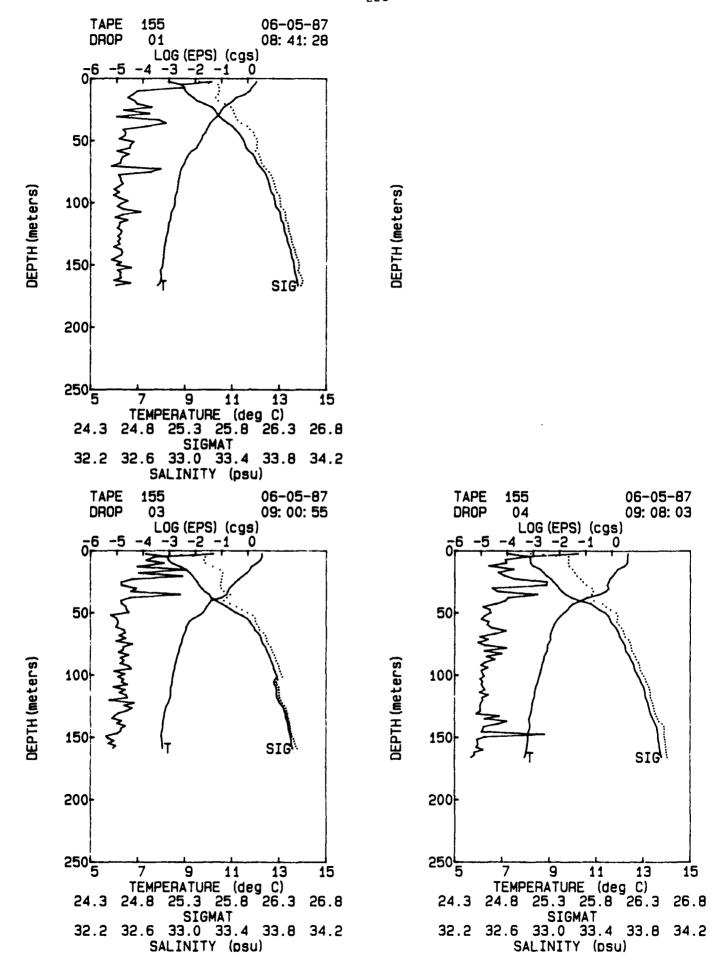




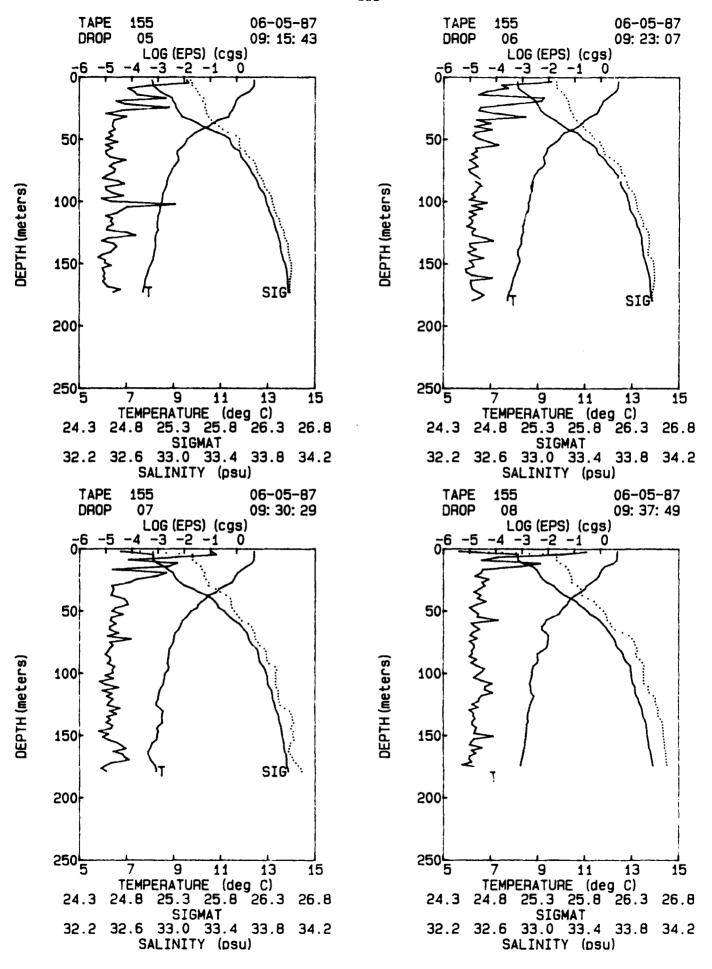
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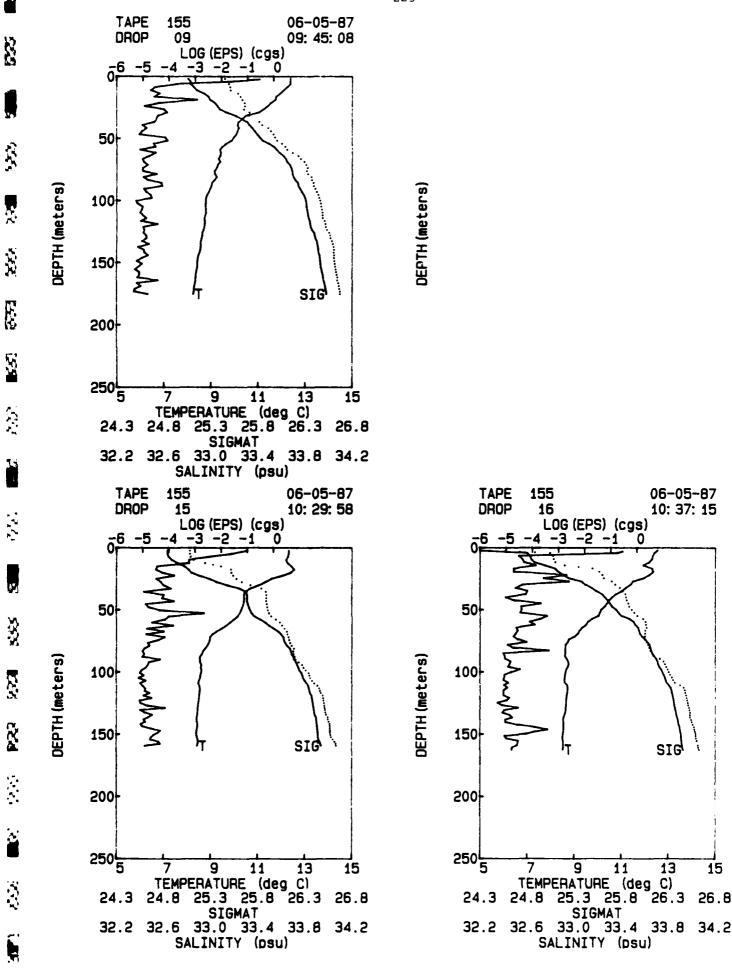
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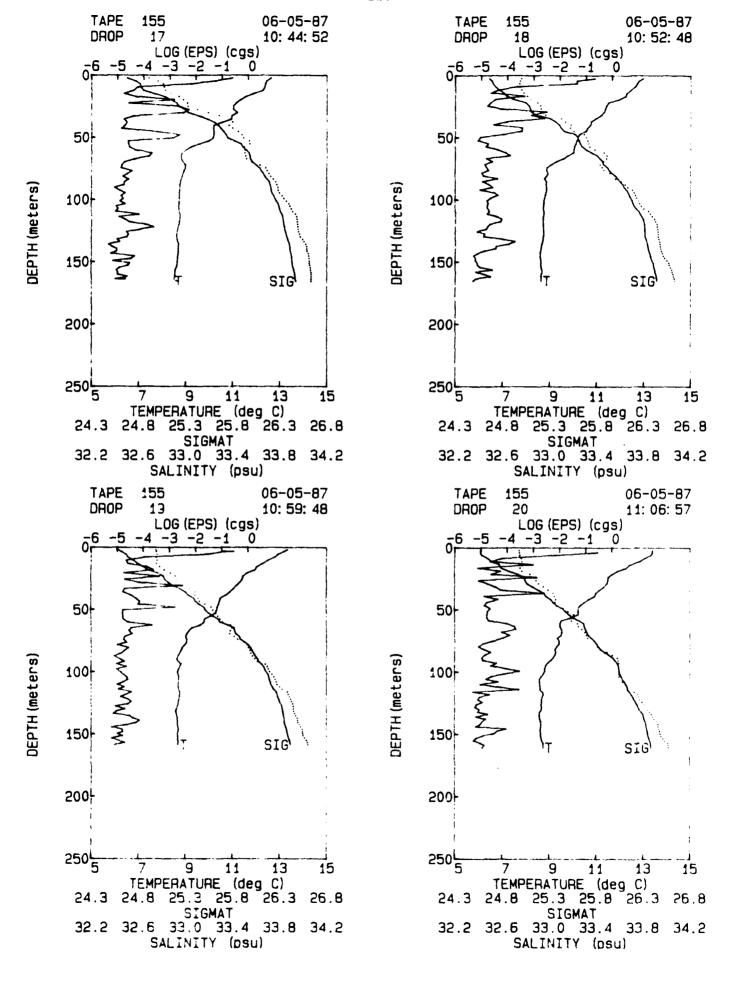
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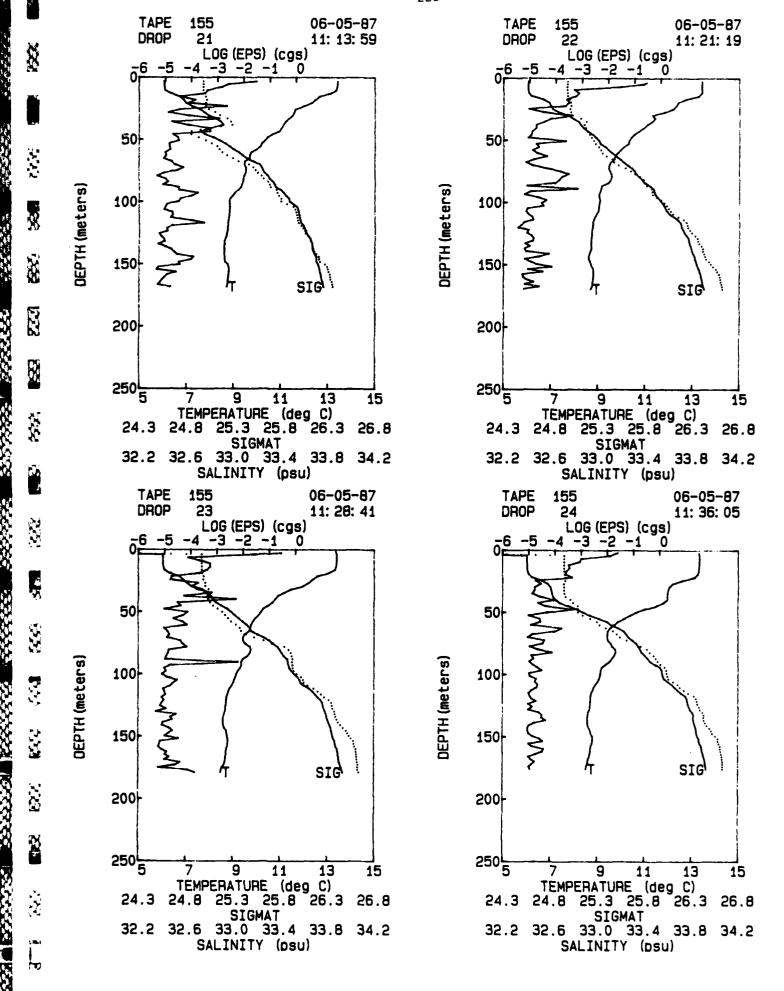


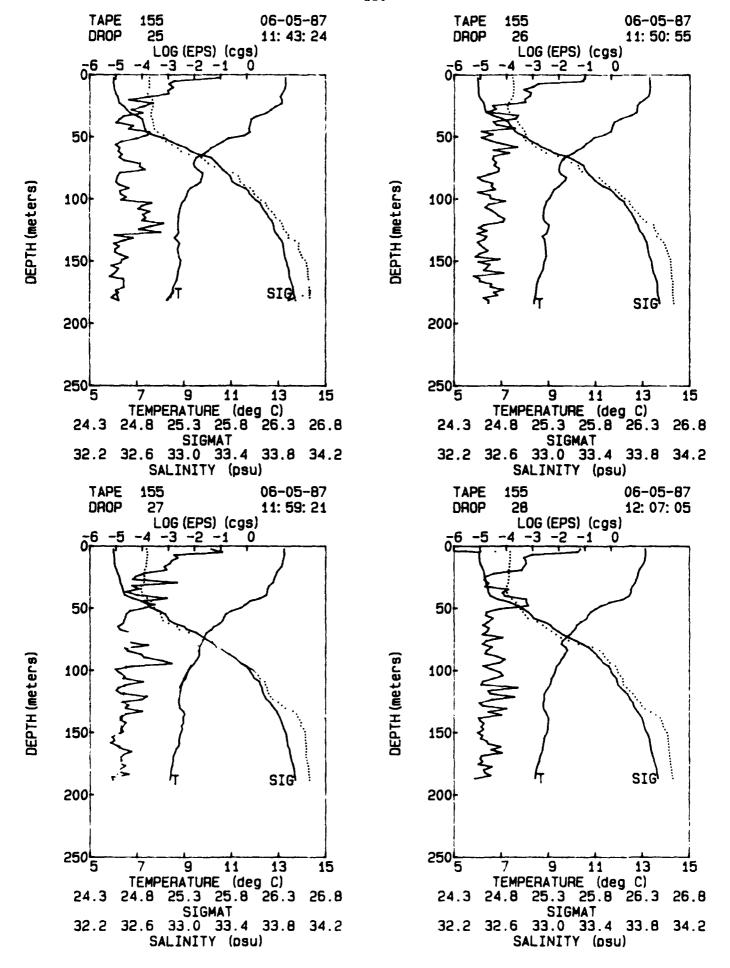
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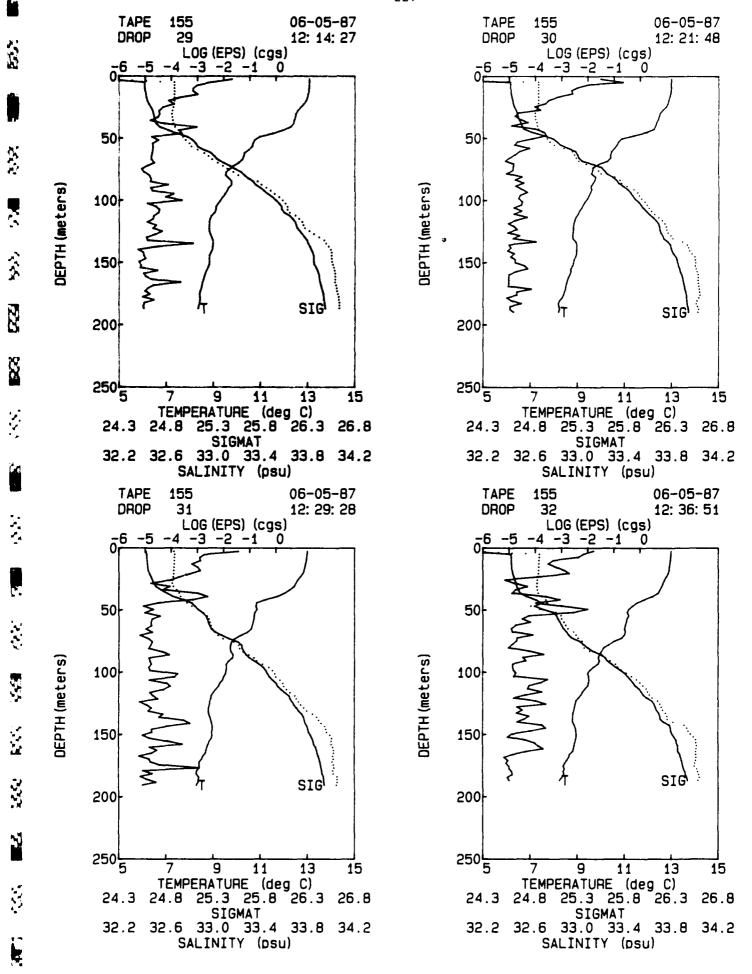


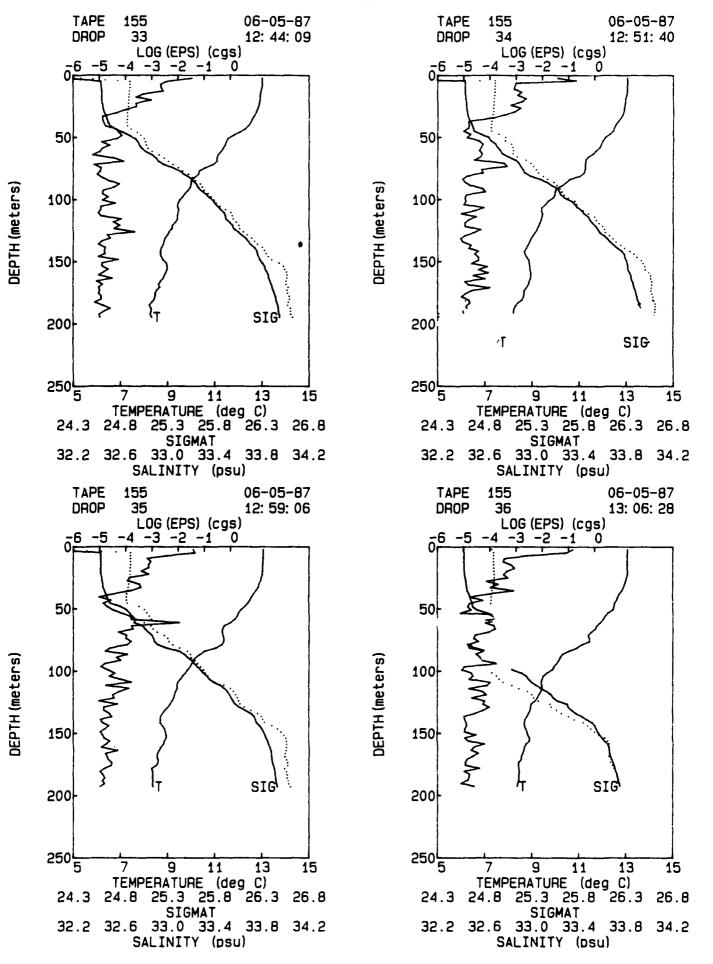












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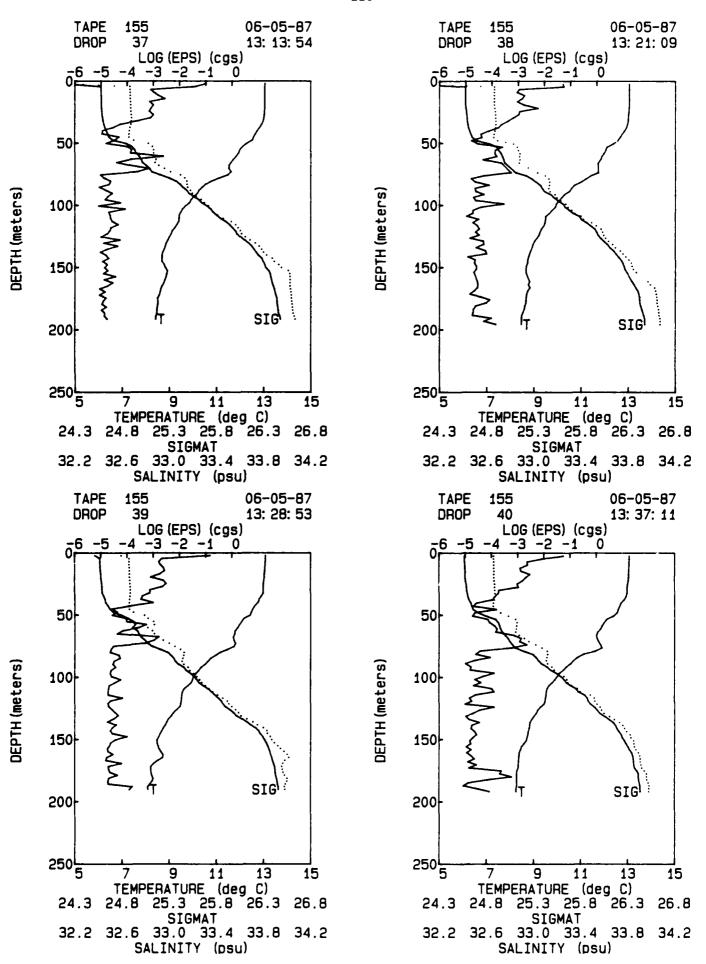
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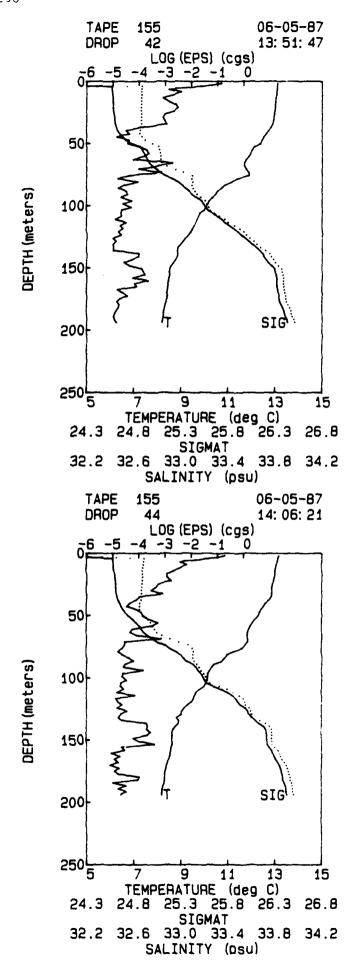
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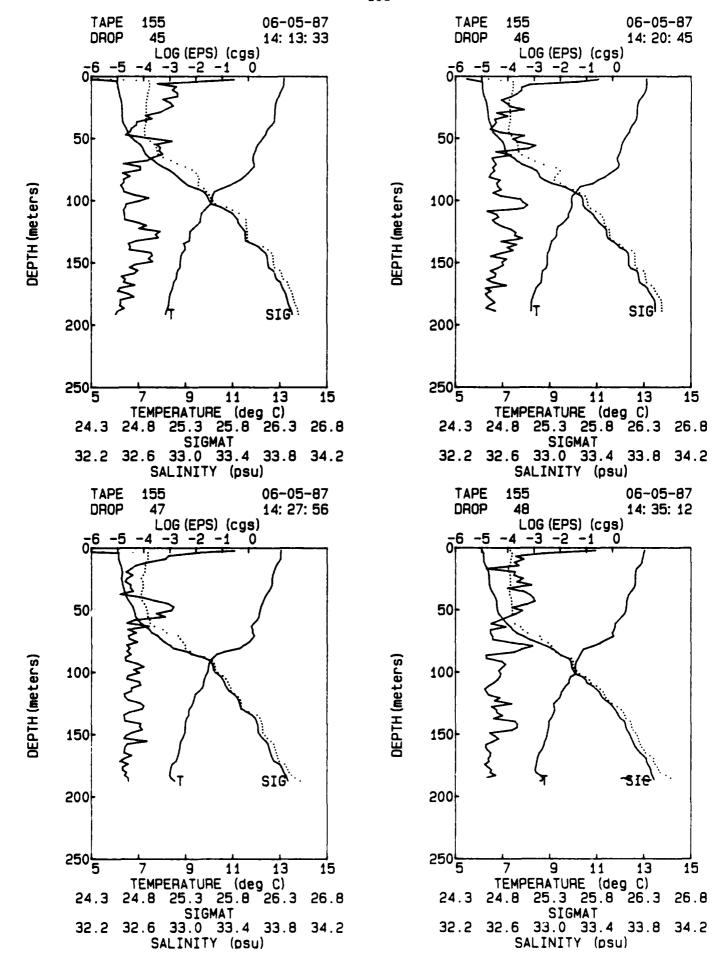
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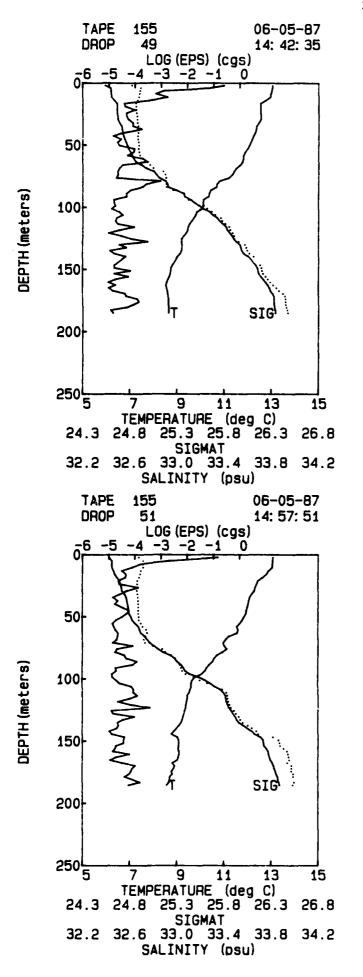


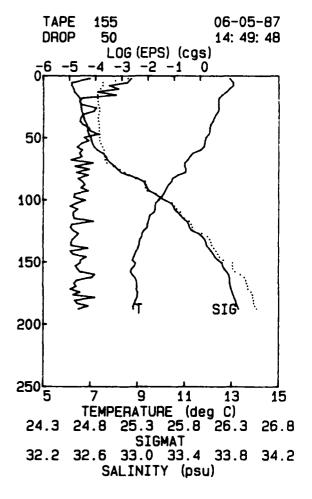


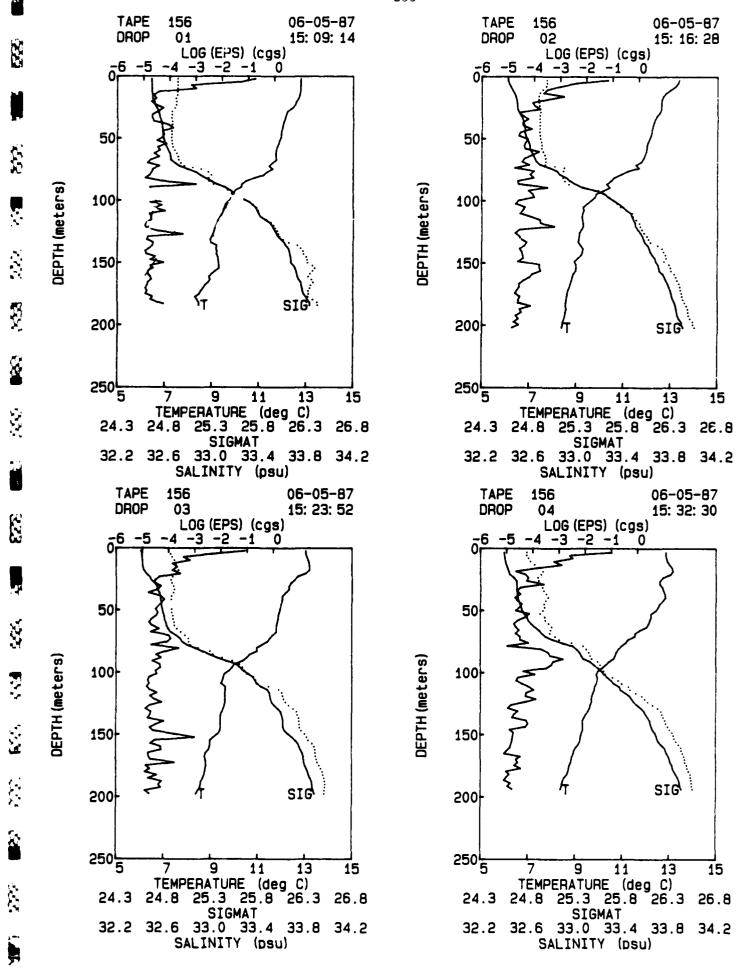


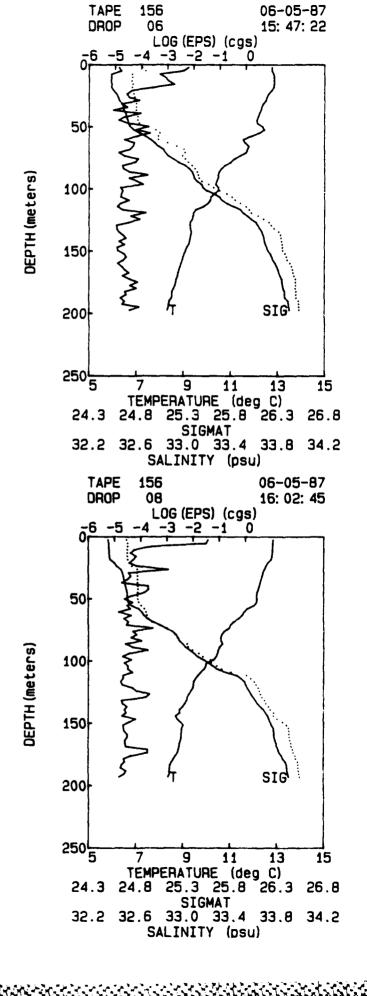
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DEPTH (meters)

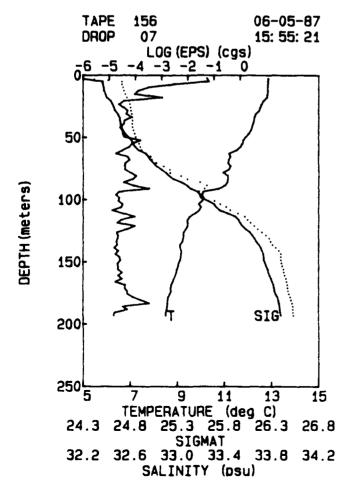


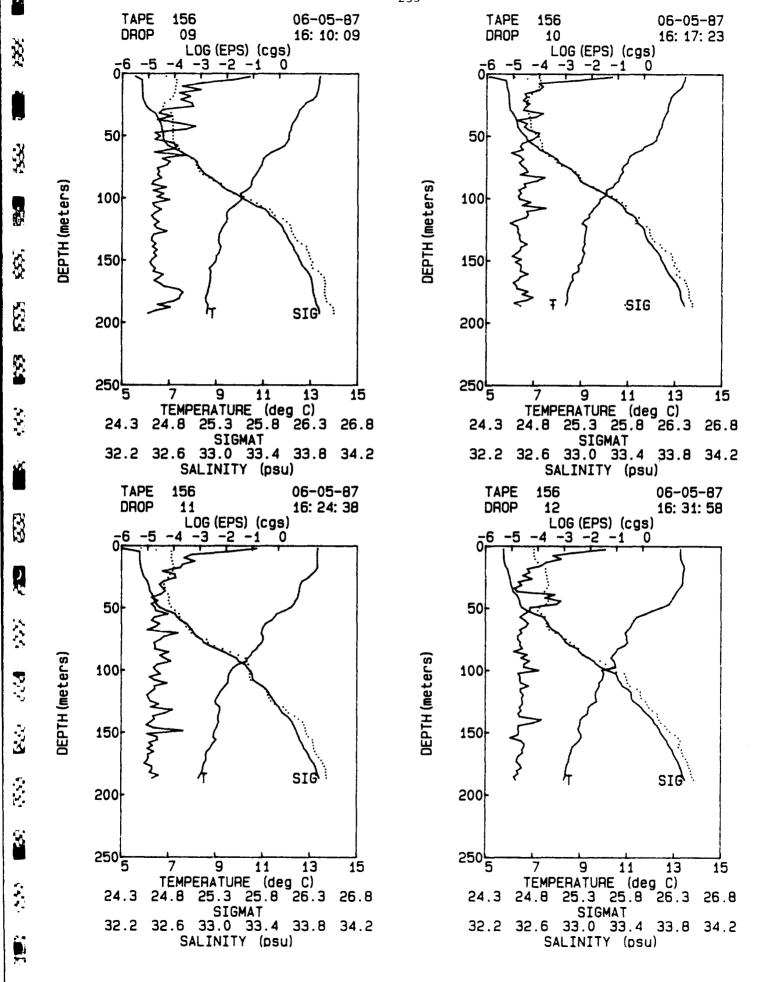


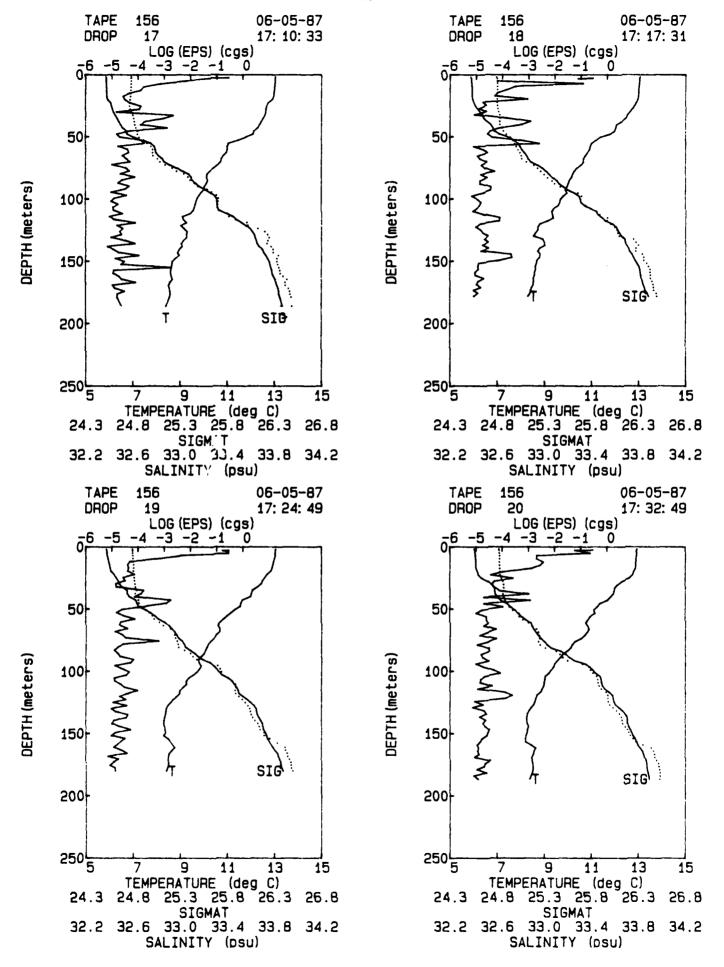


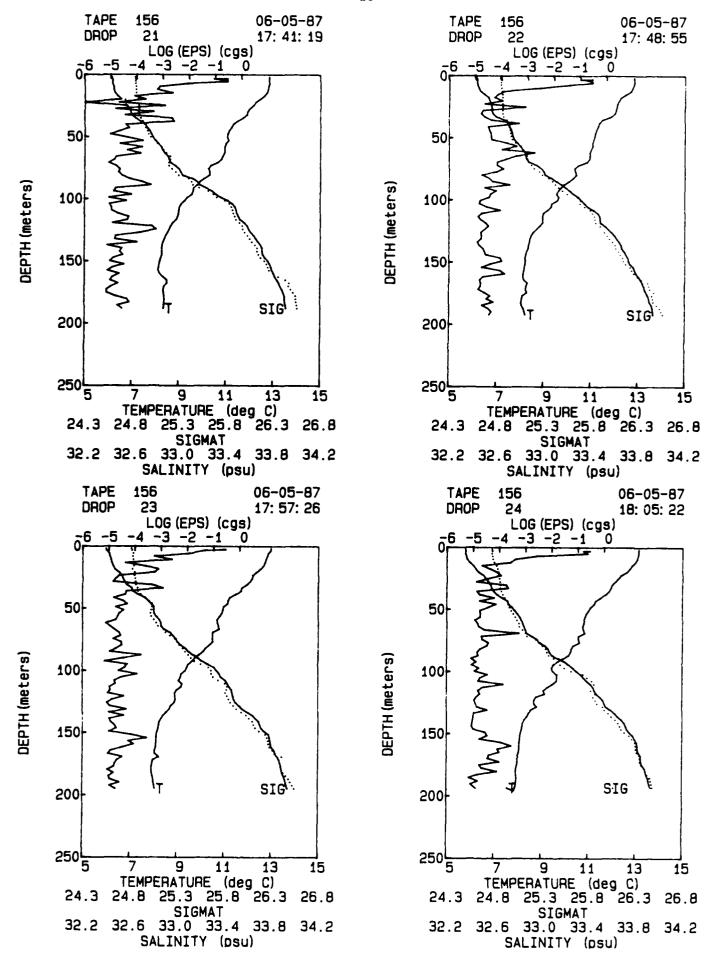


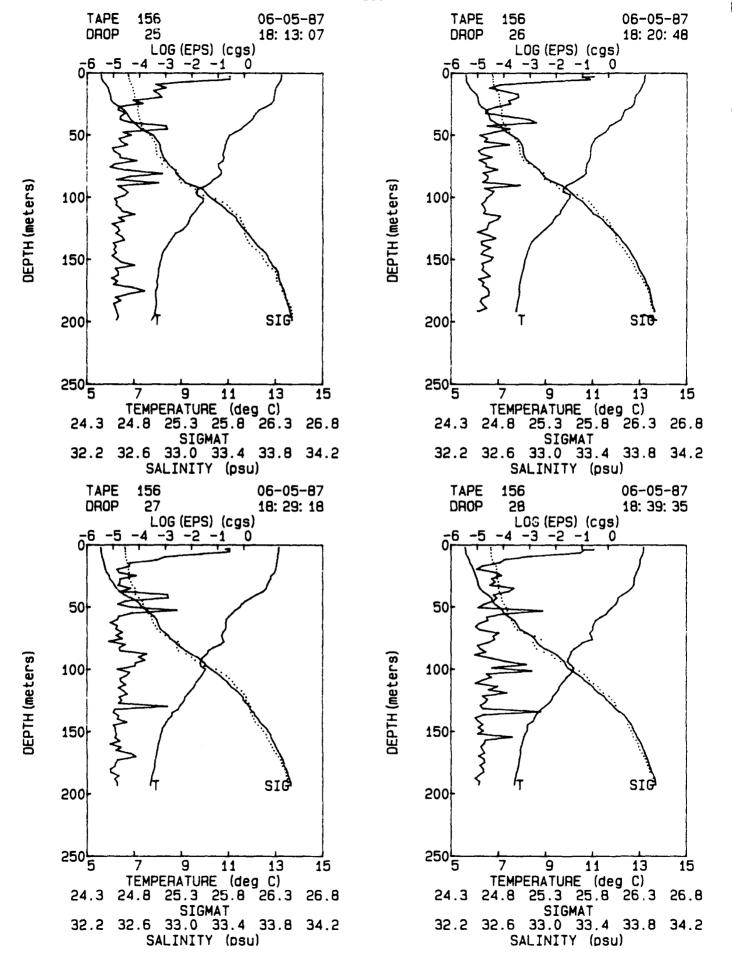
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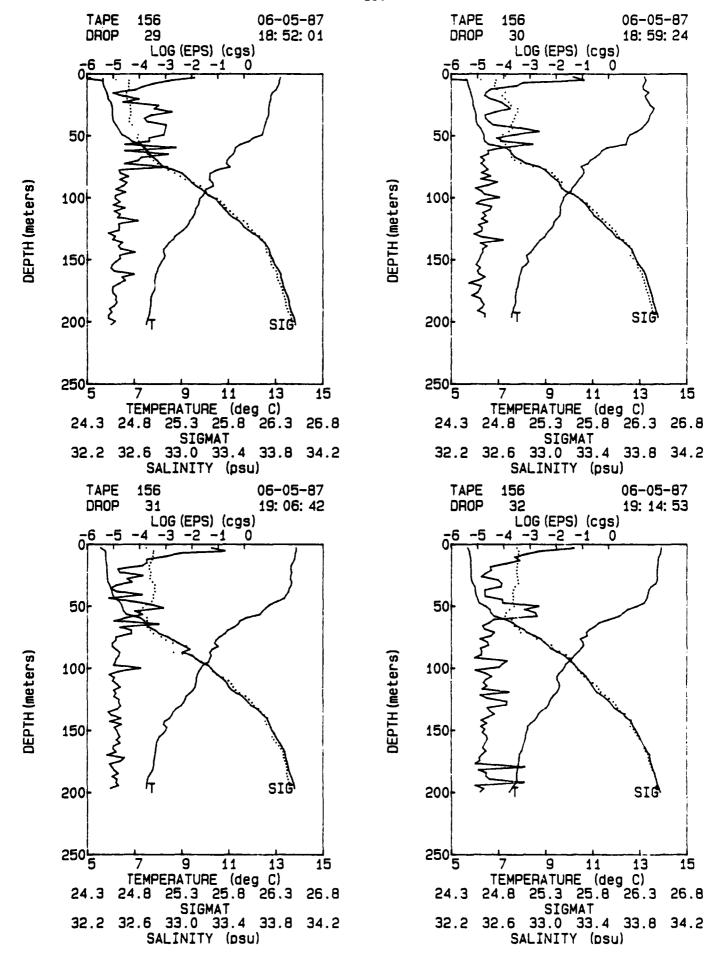
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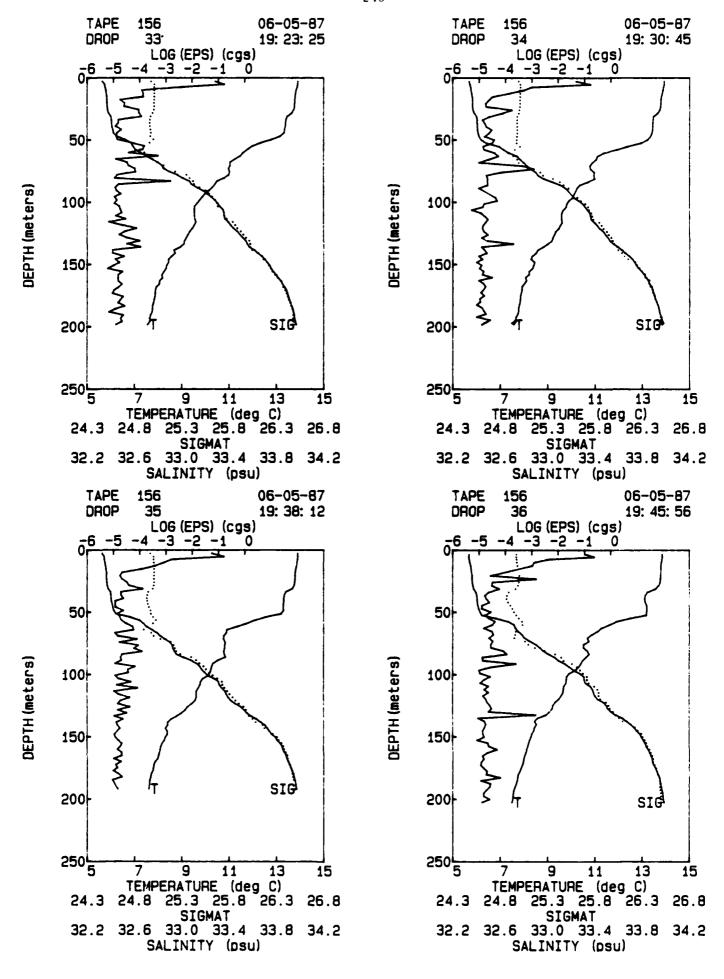
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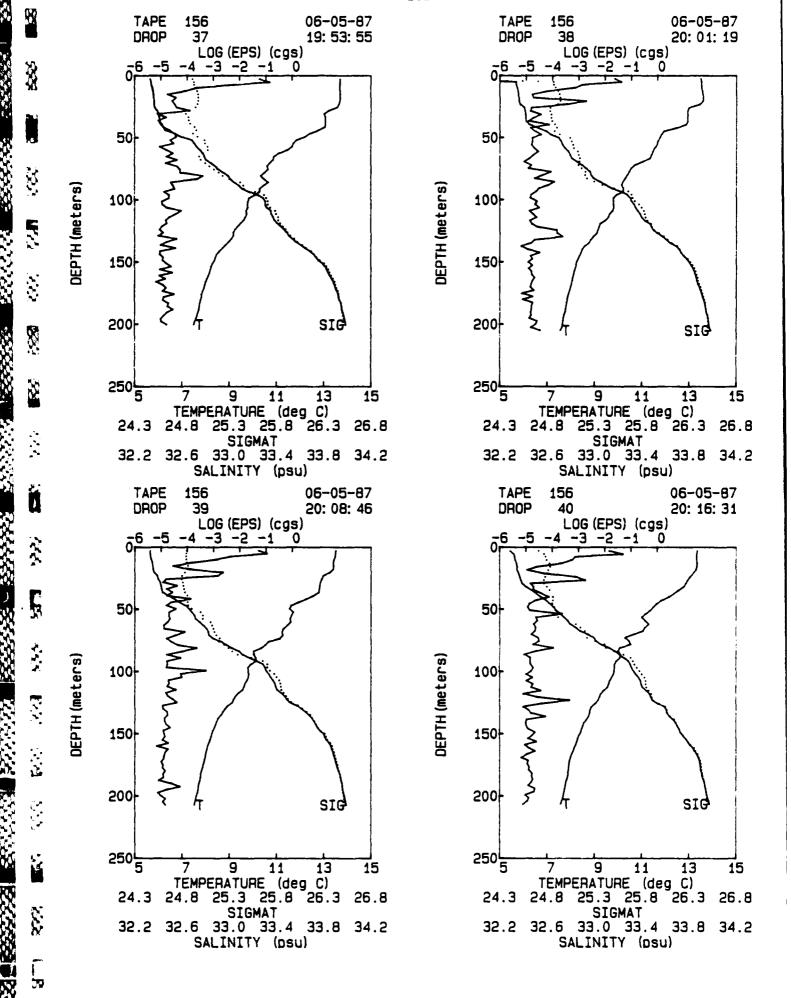
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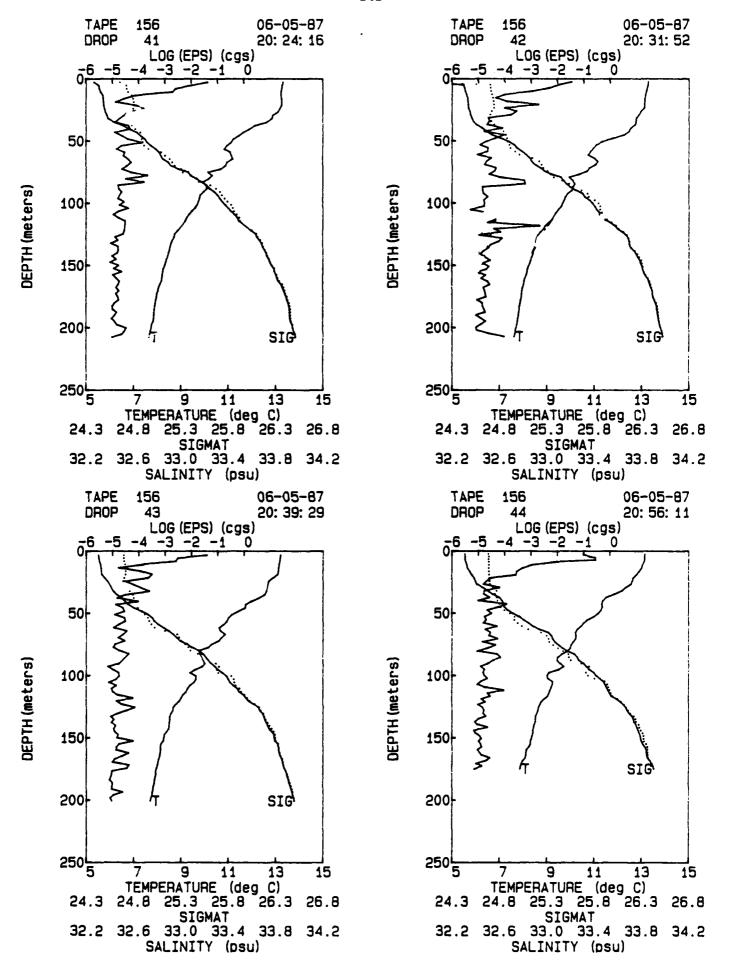
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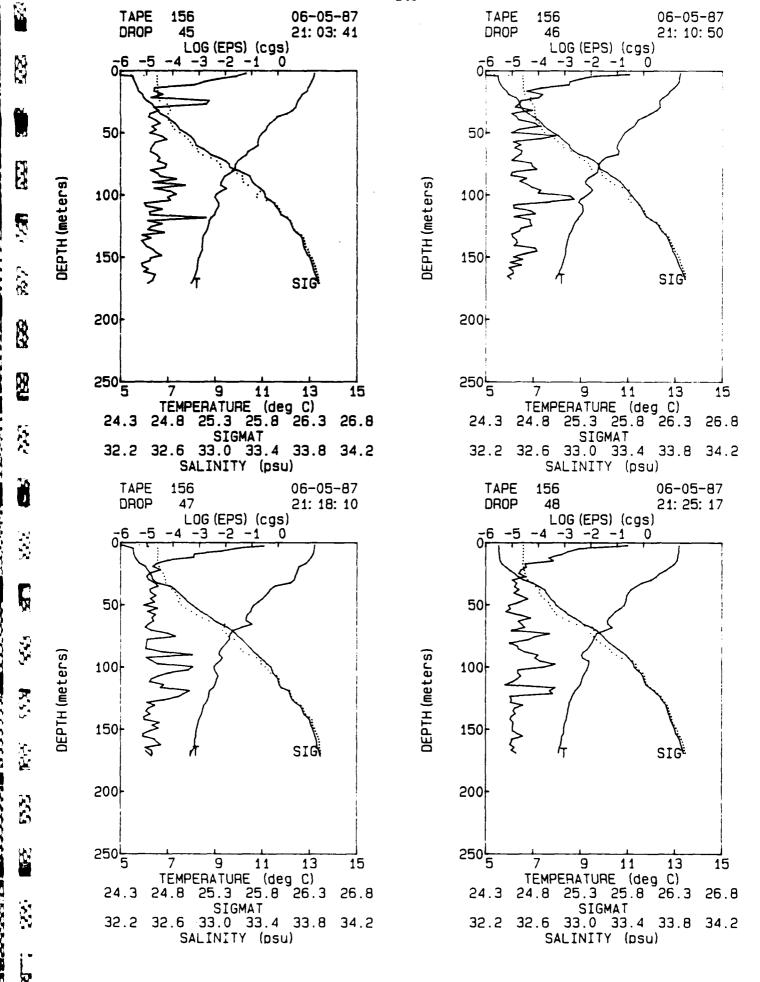
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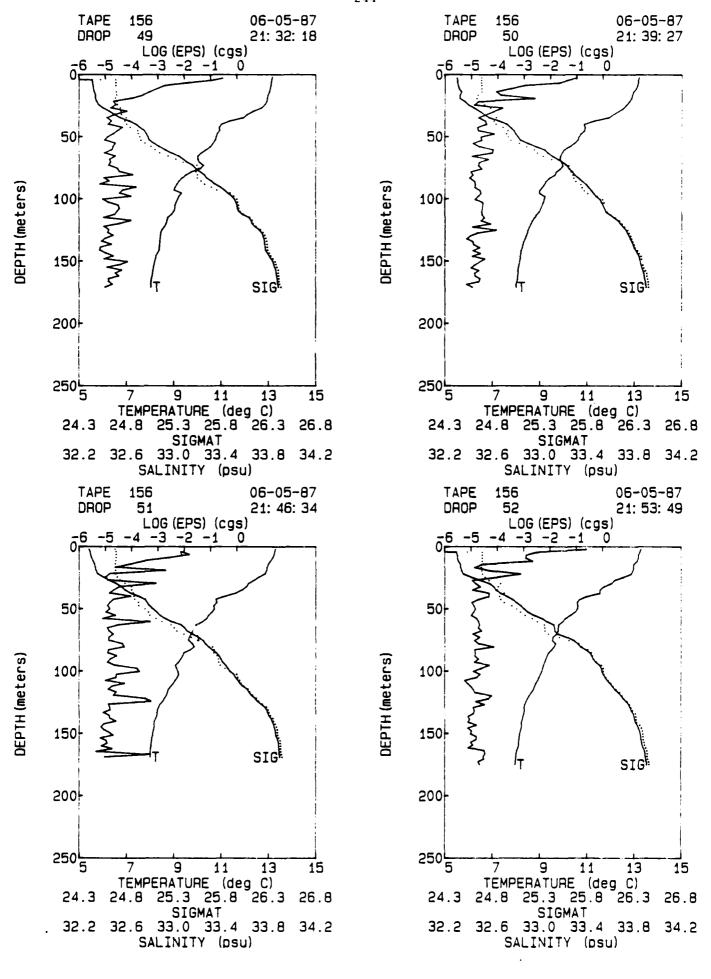




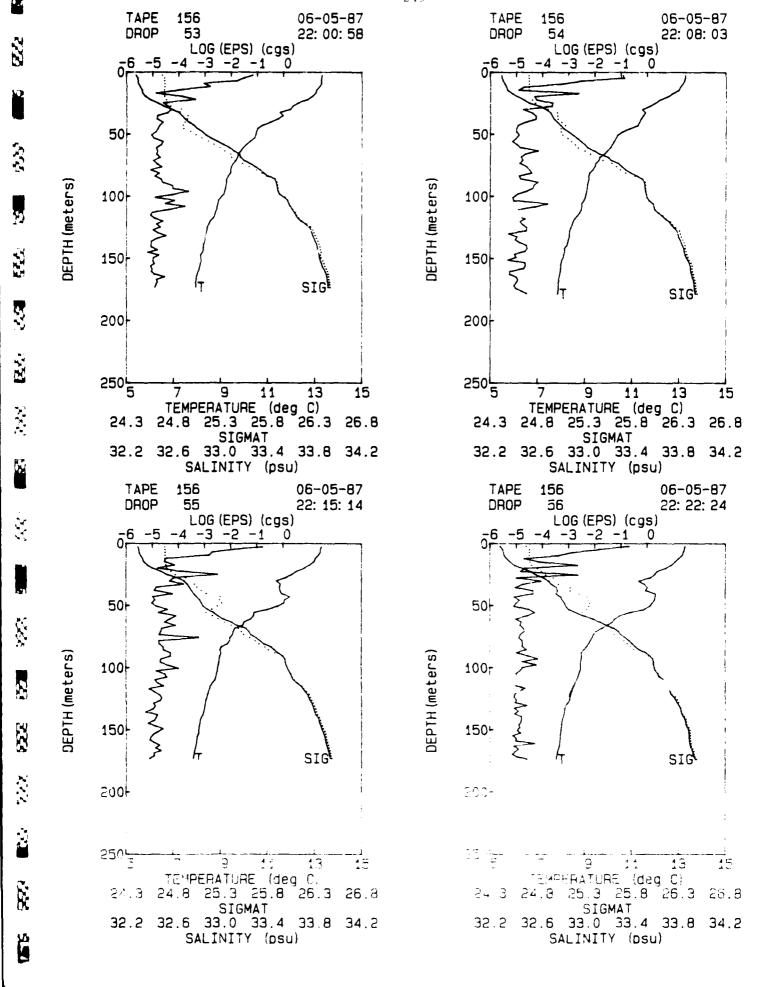


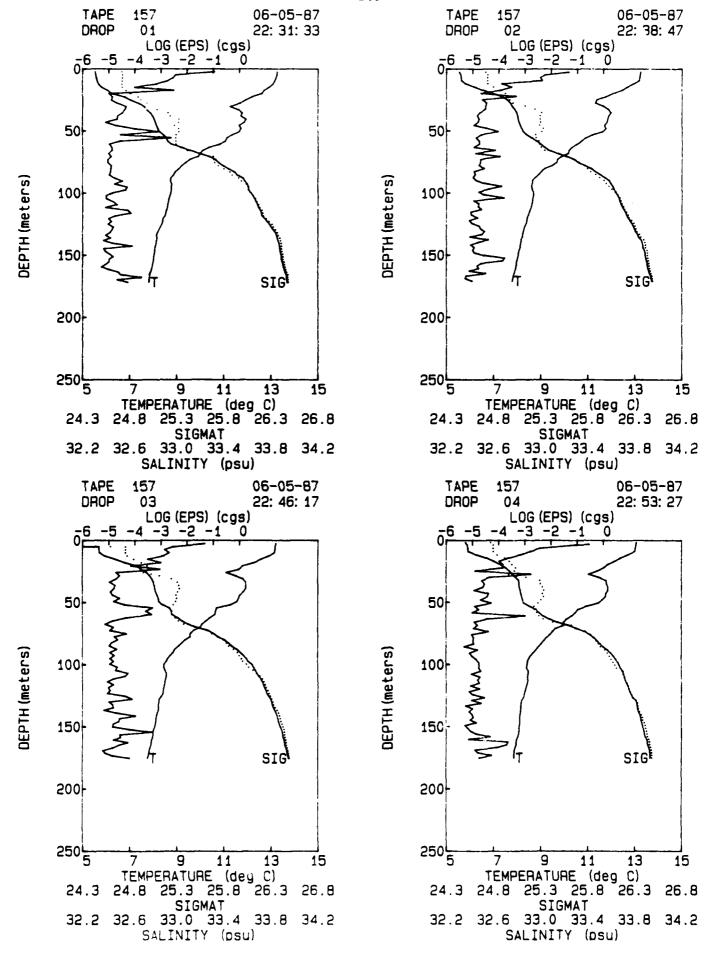


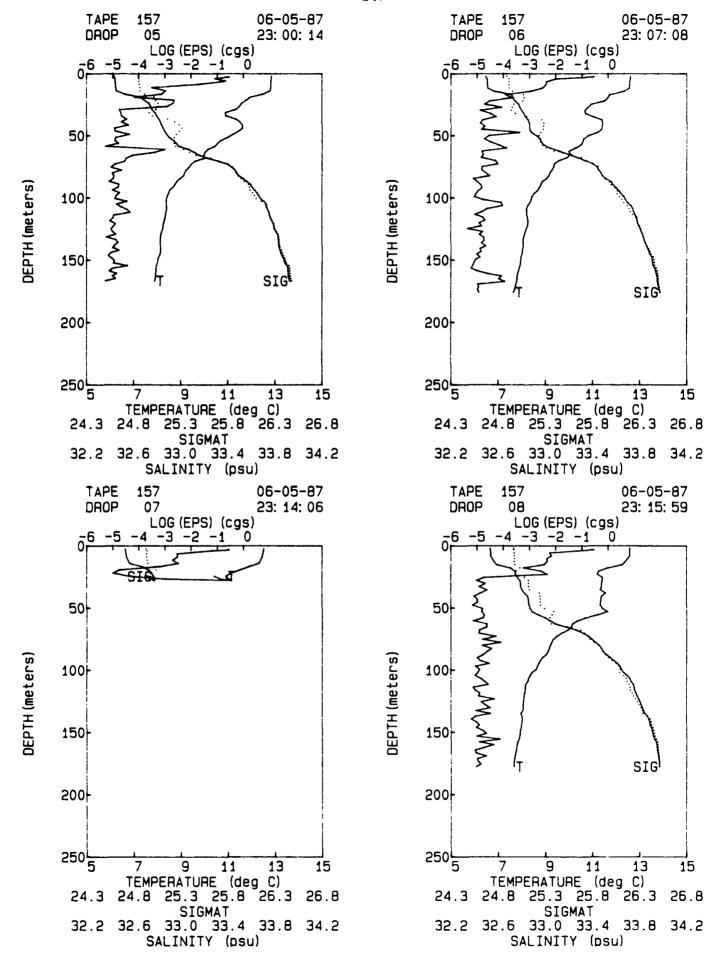




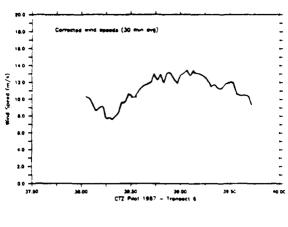
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TRANSECT 6



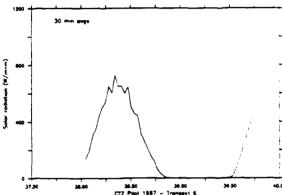
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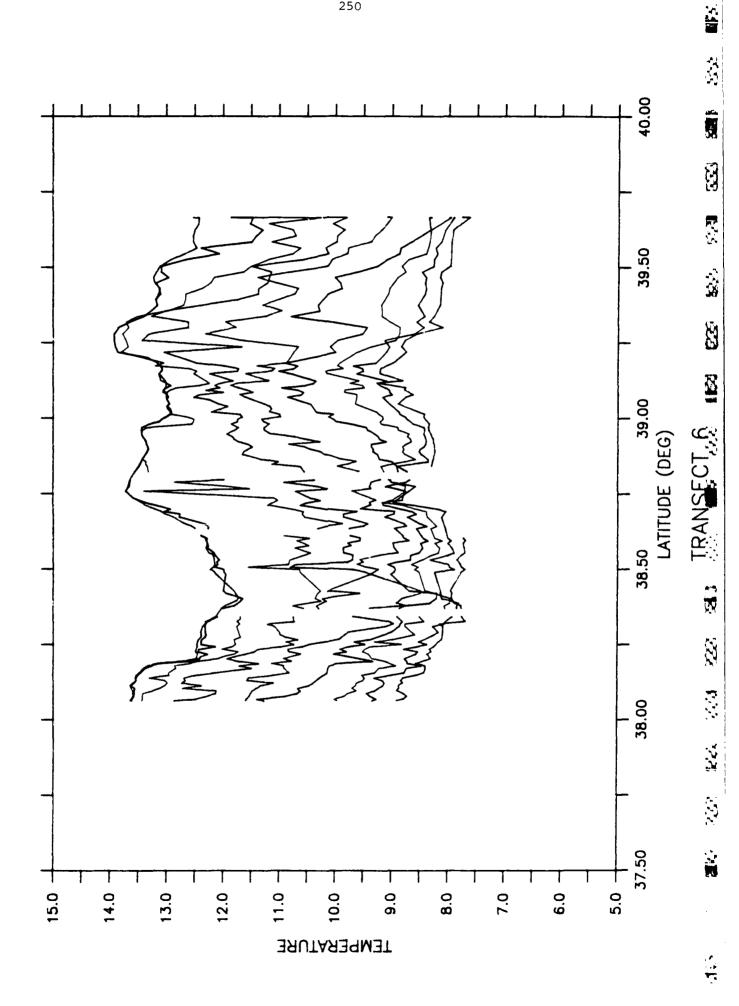
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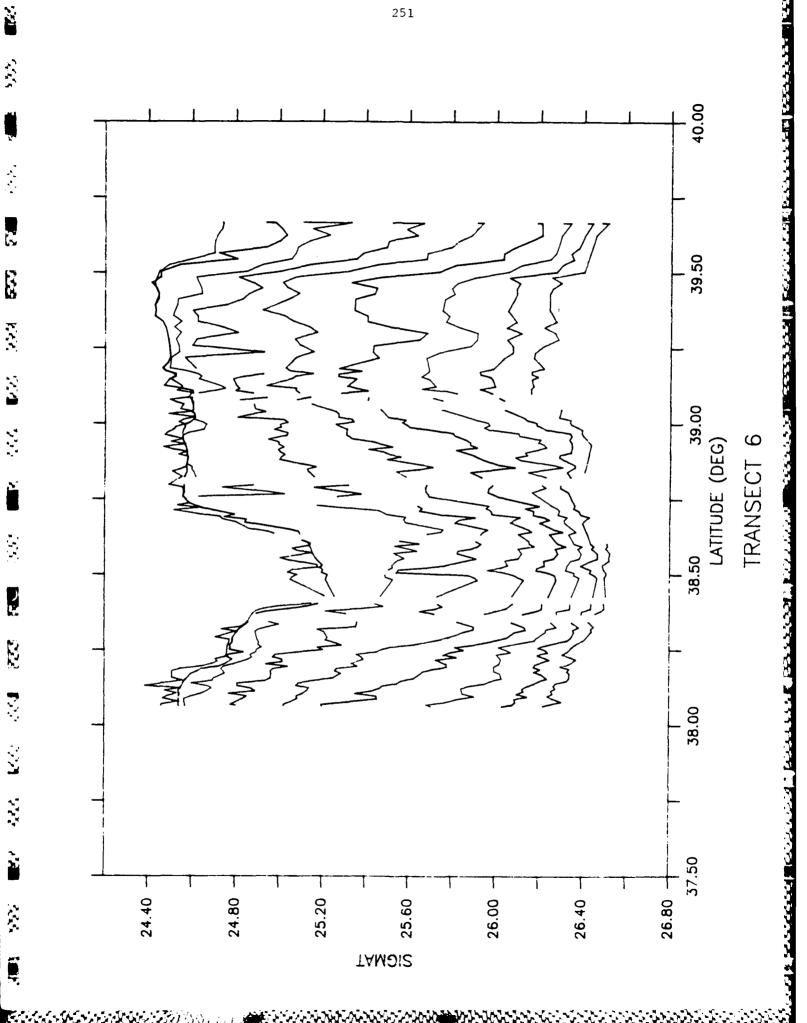
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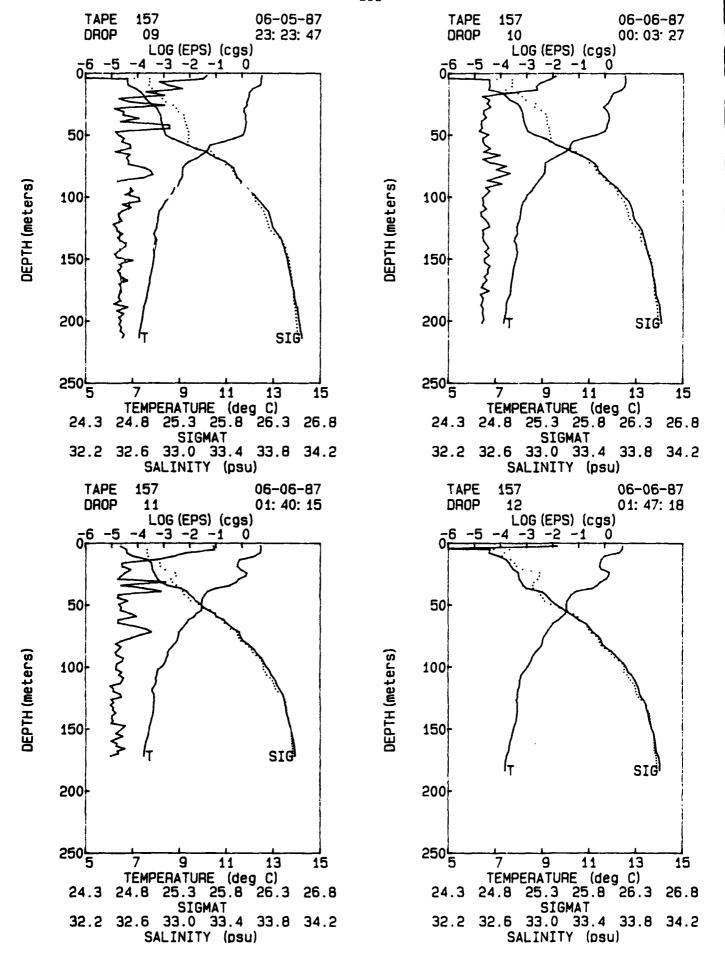
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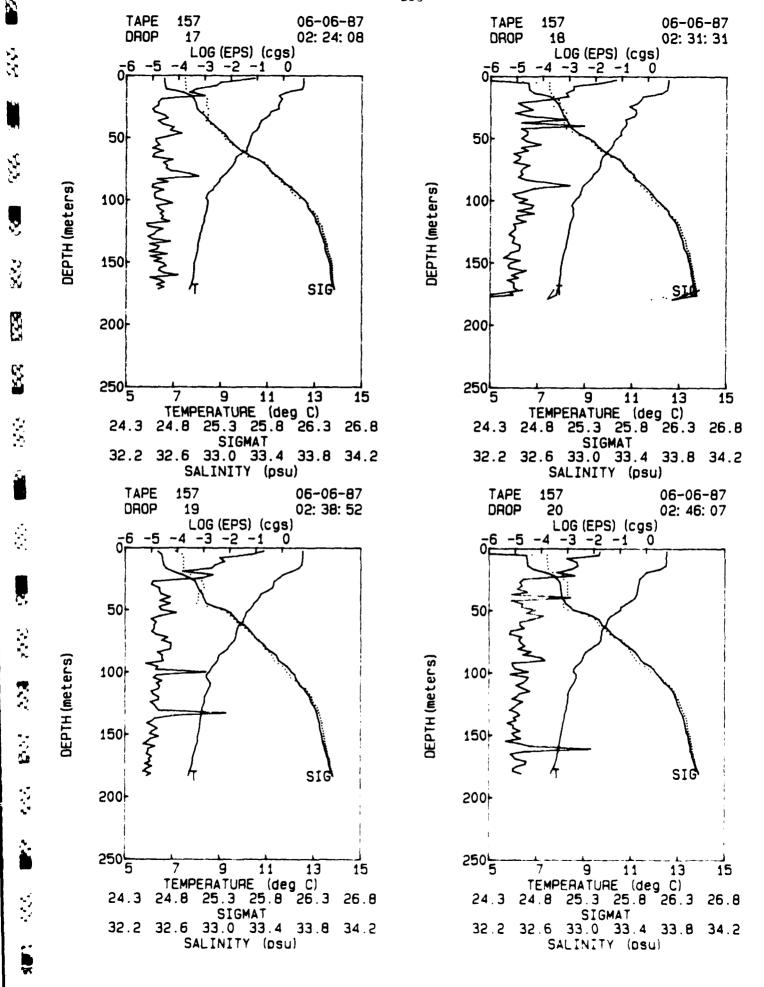
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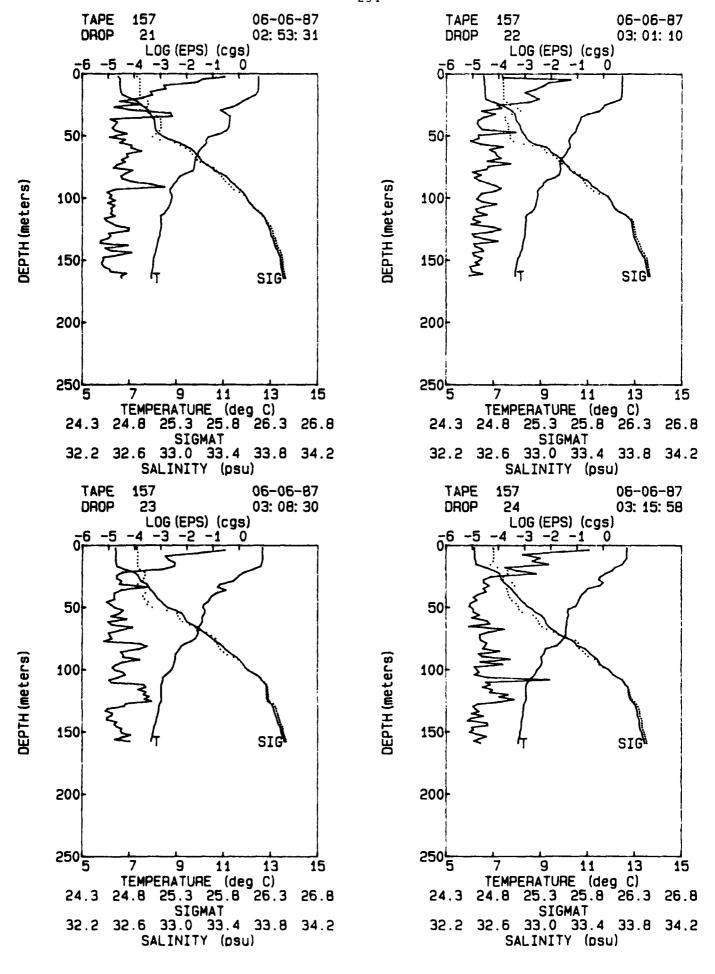


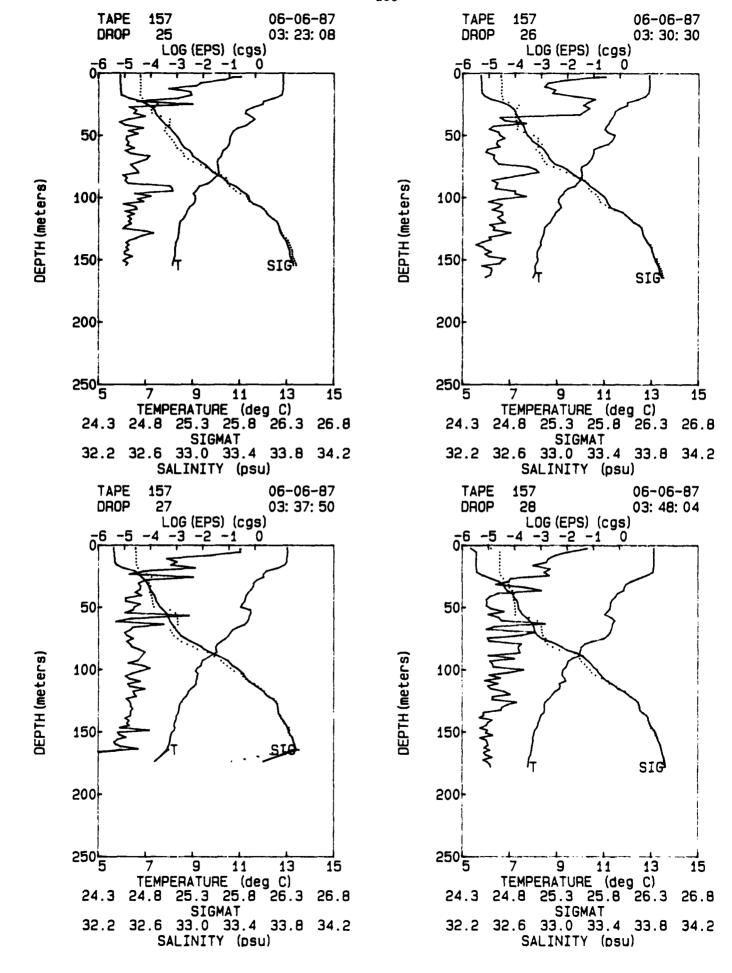




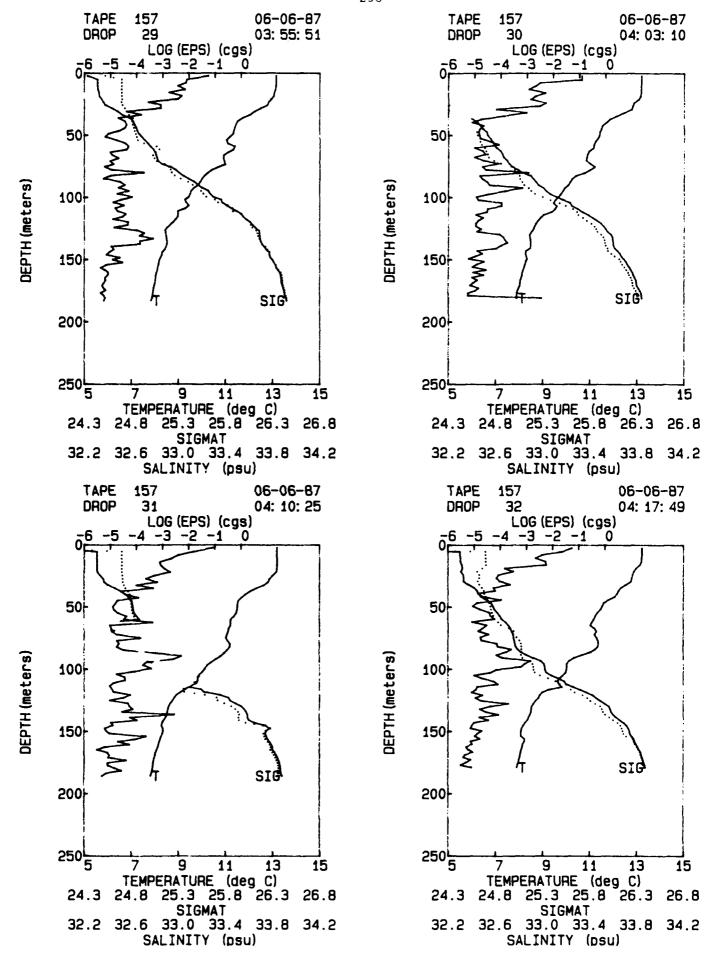








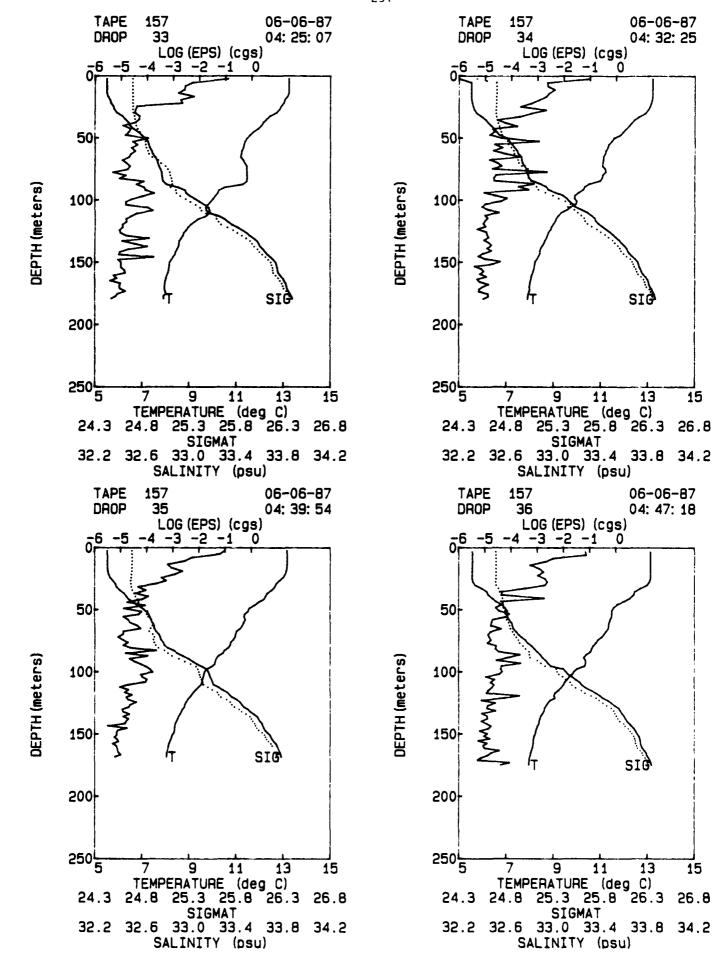
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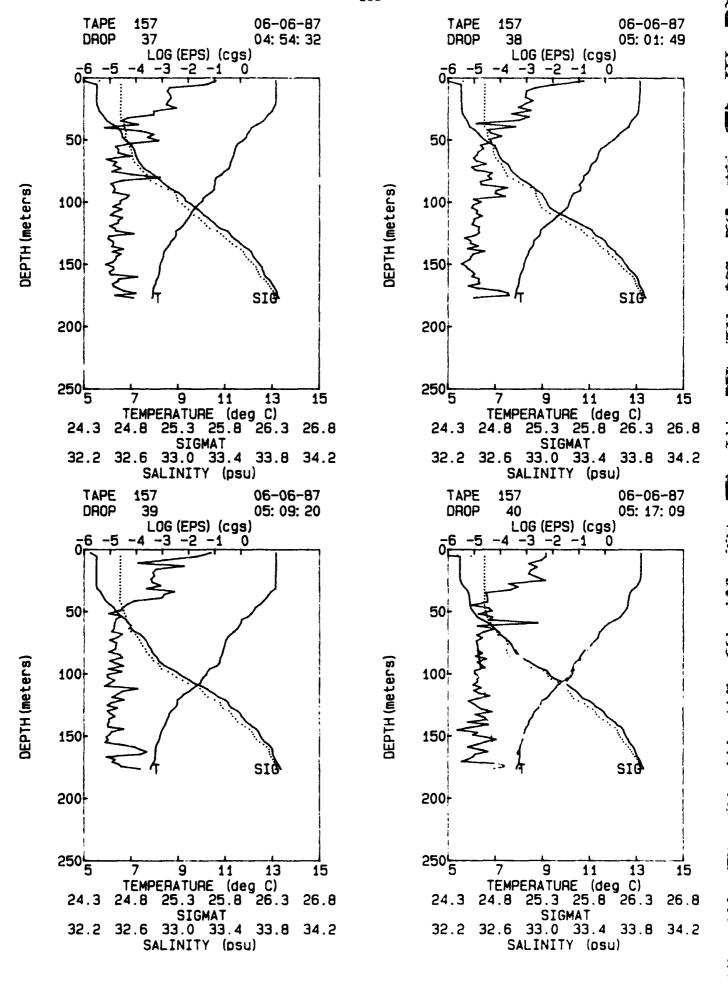


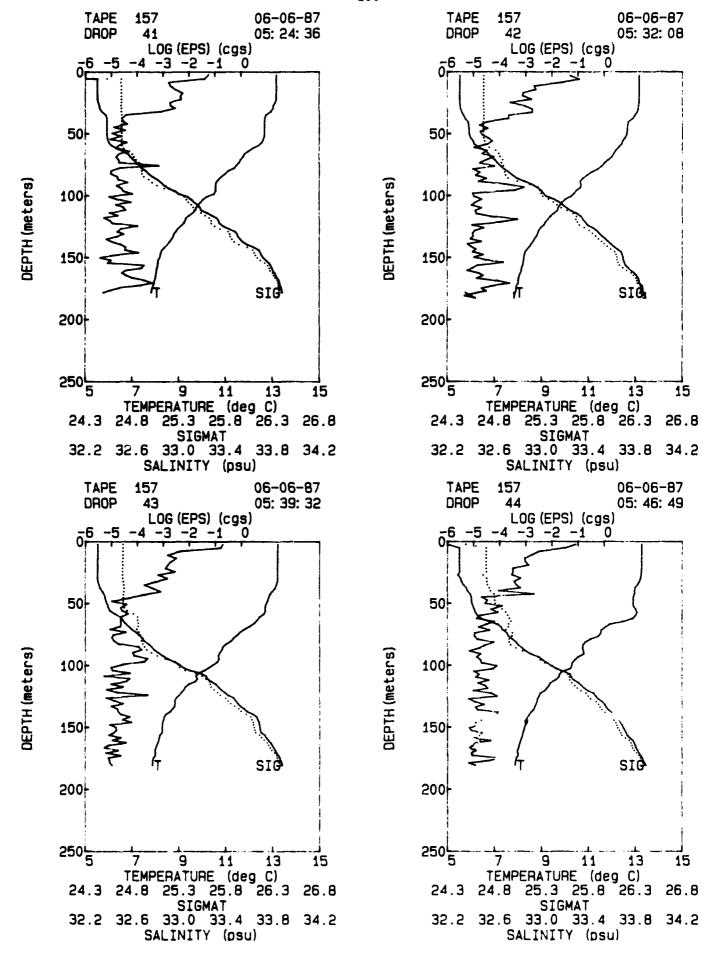
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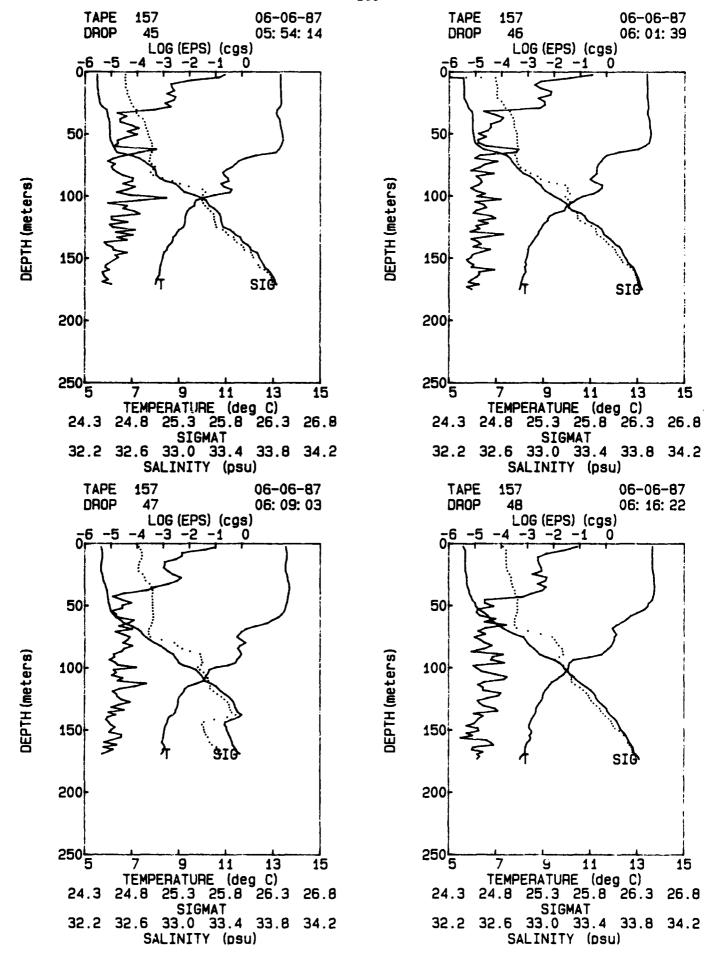
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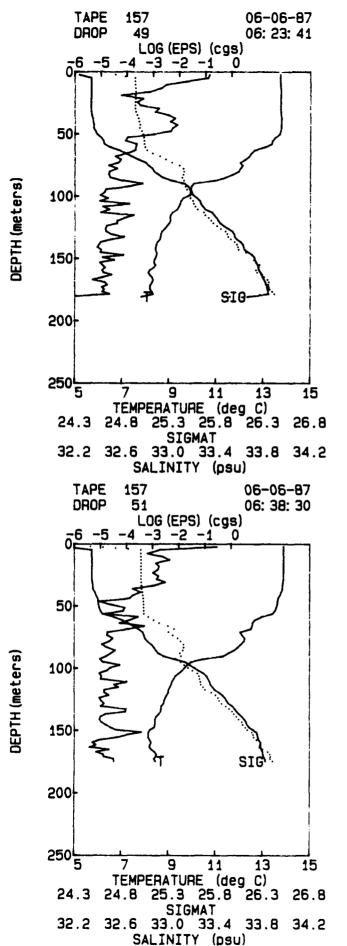






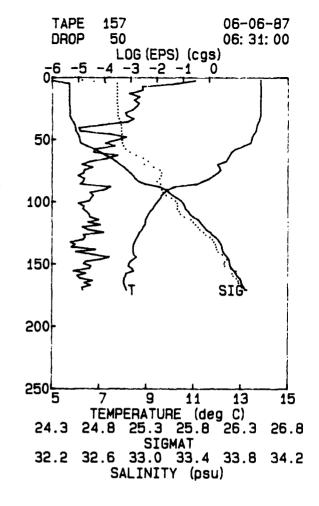


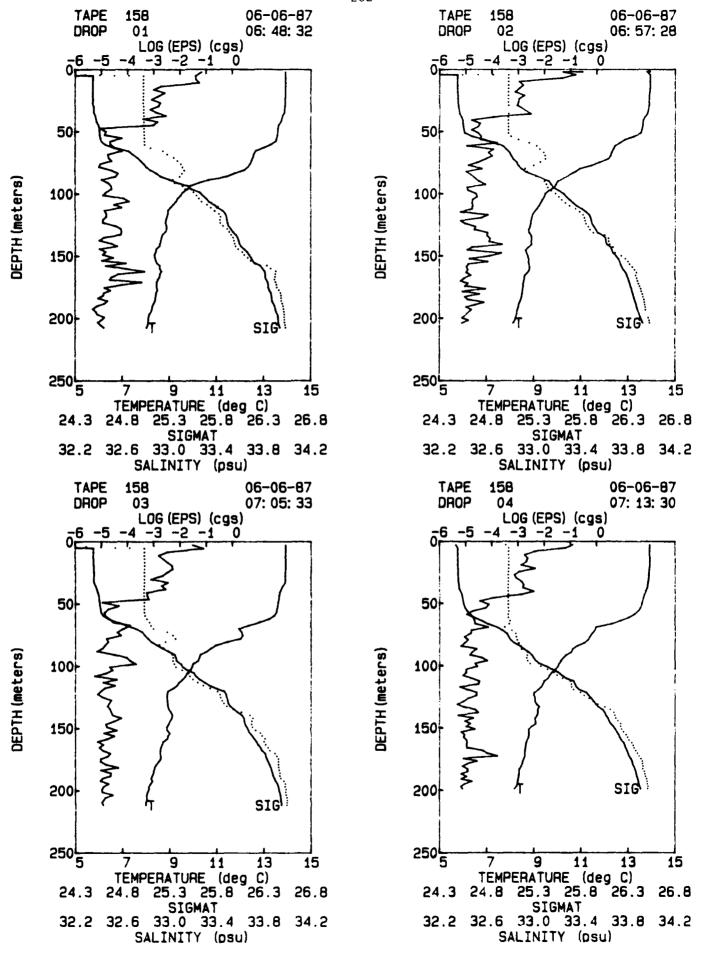
DEPTH (meters)

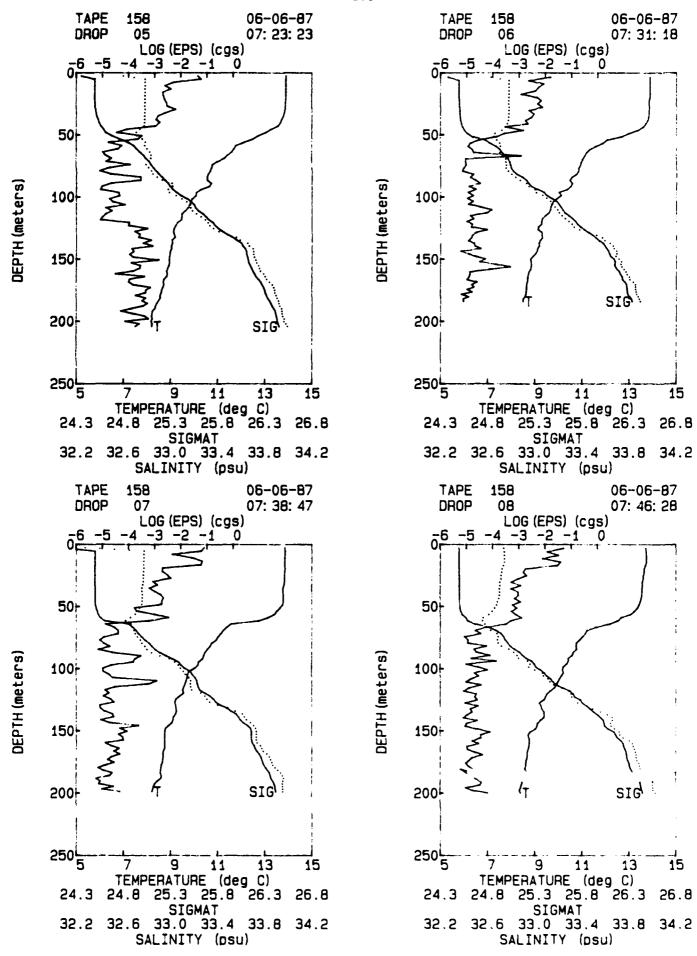


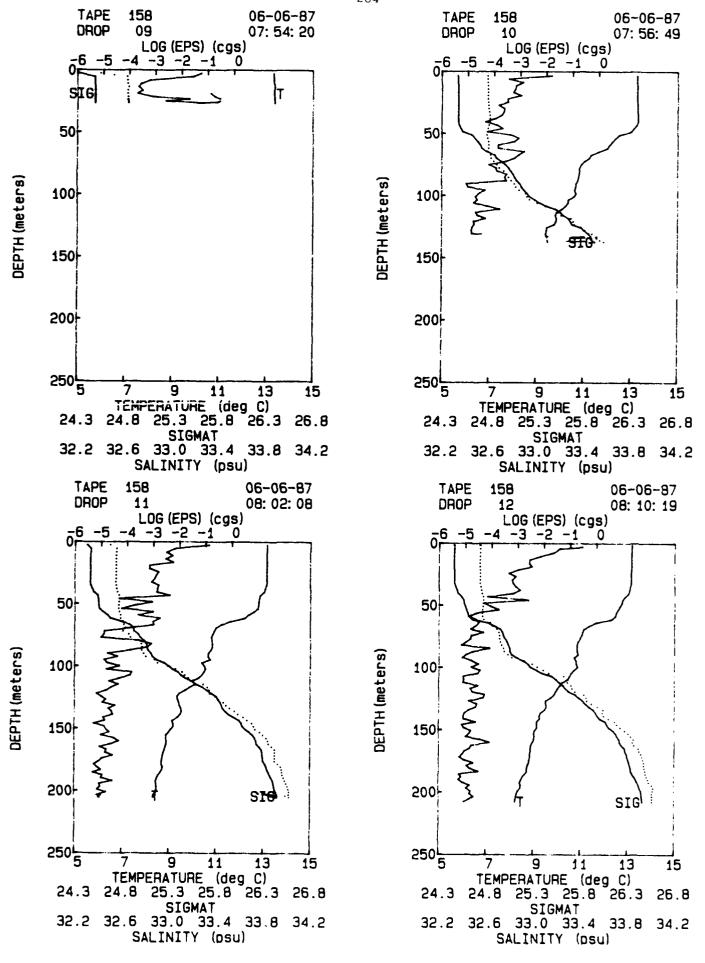
STATE OF THE PERSONS

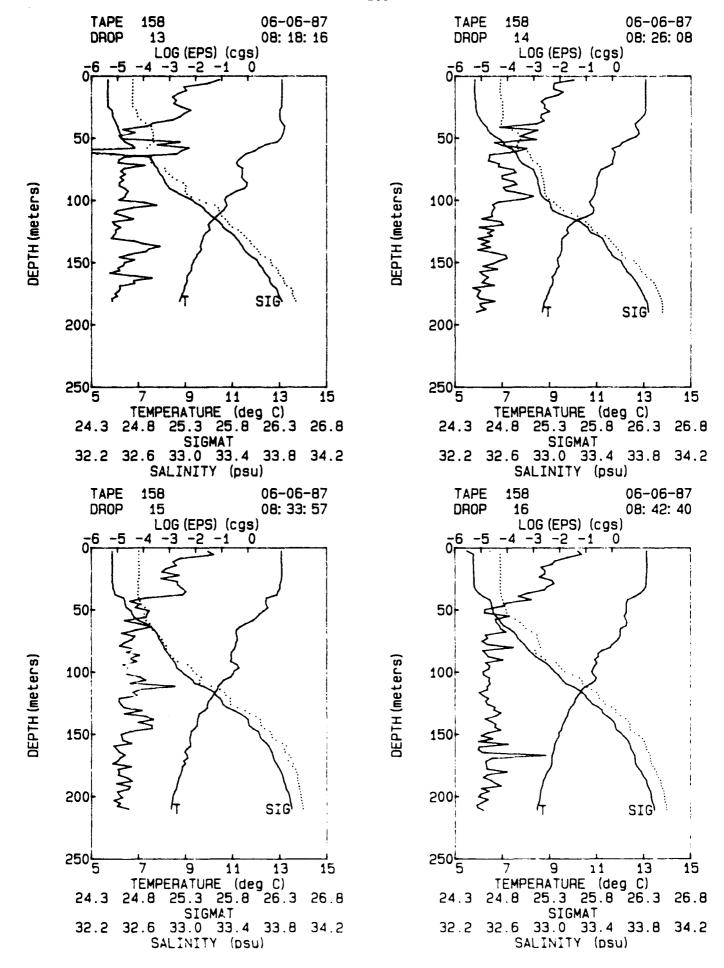
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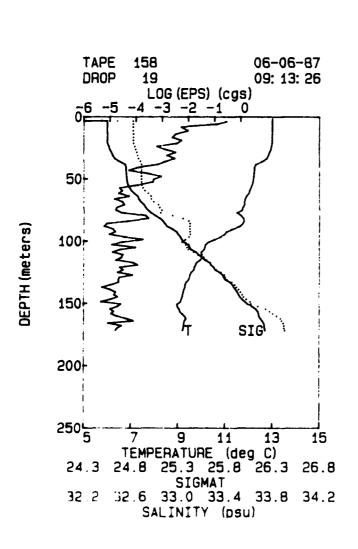


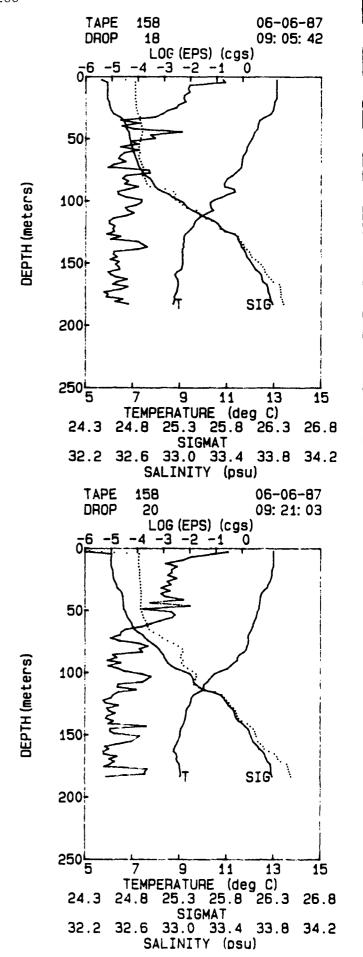


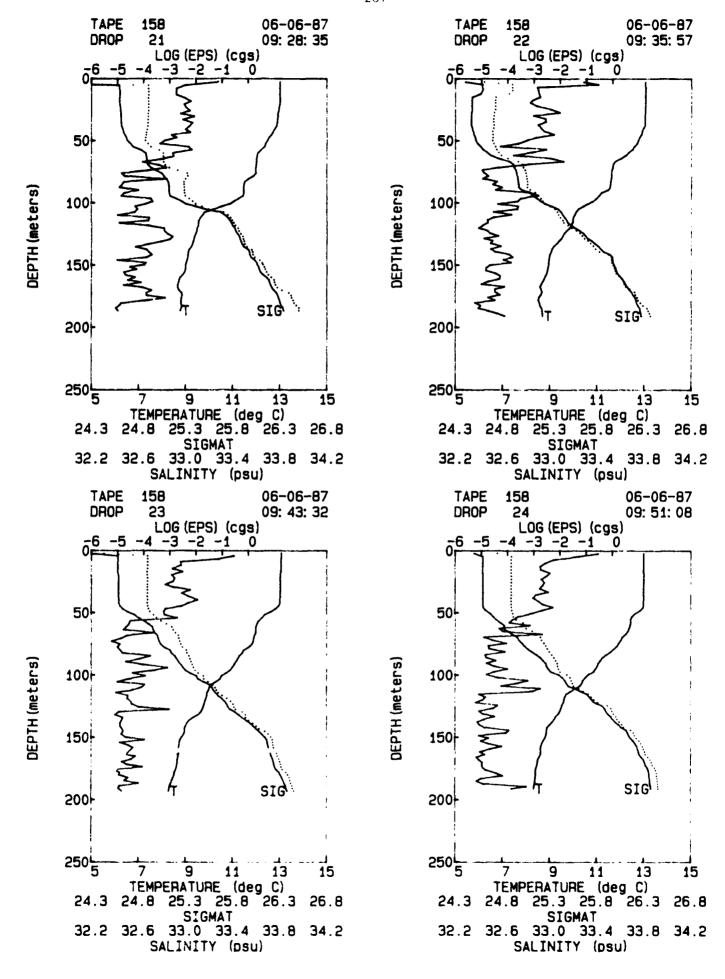


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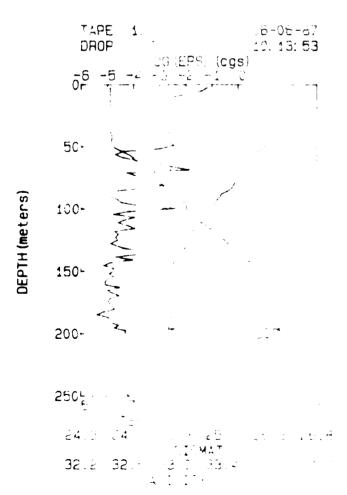


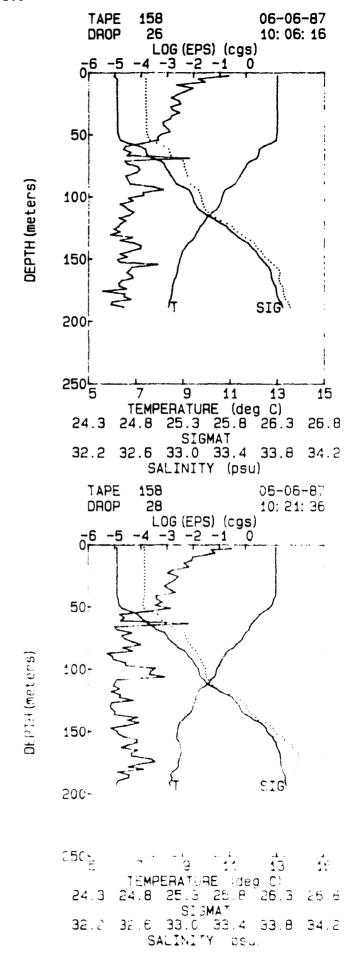


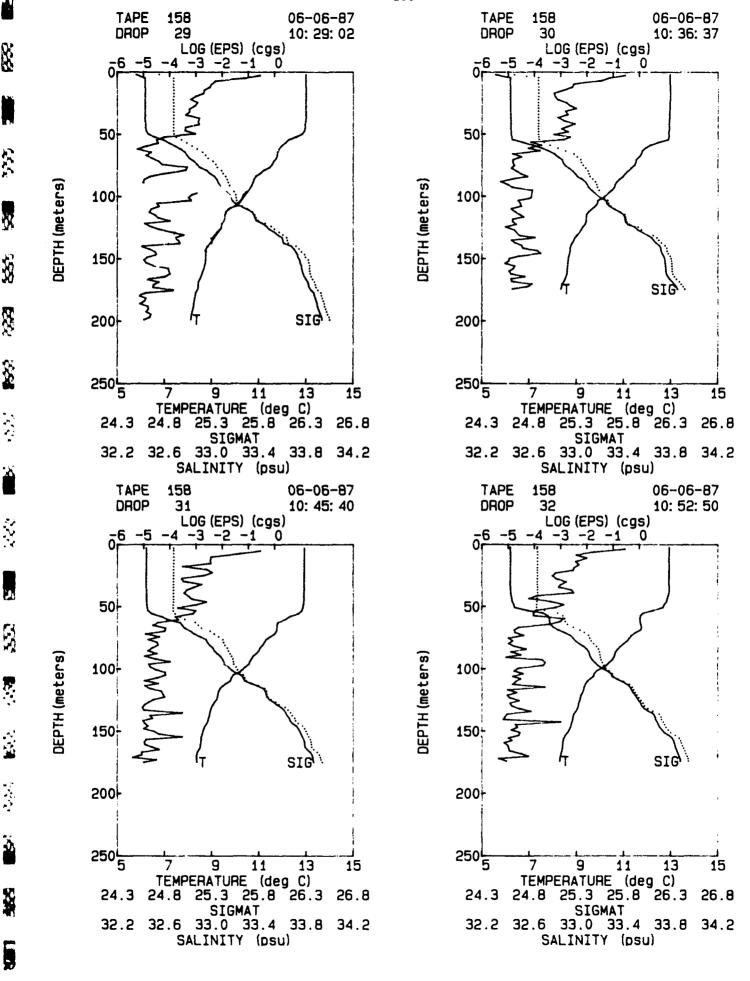


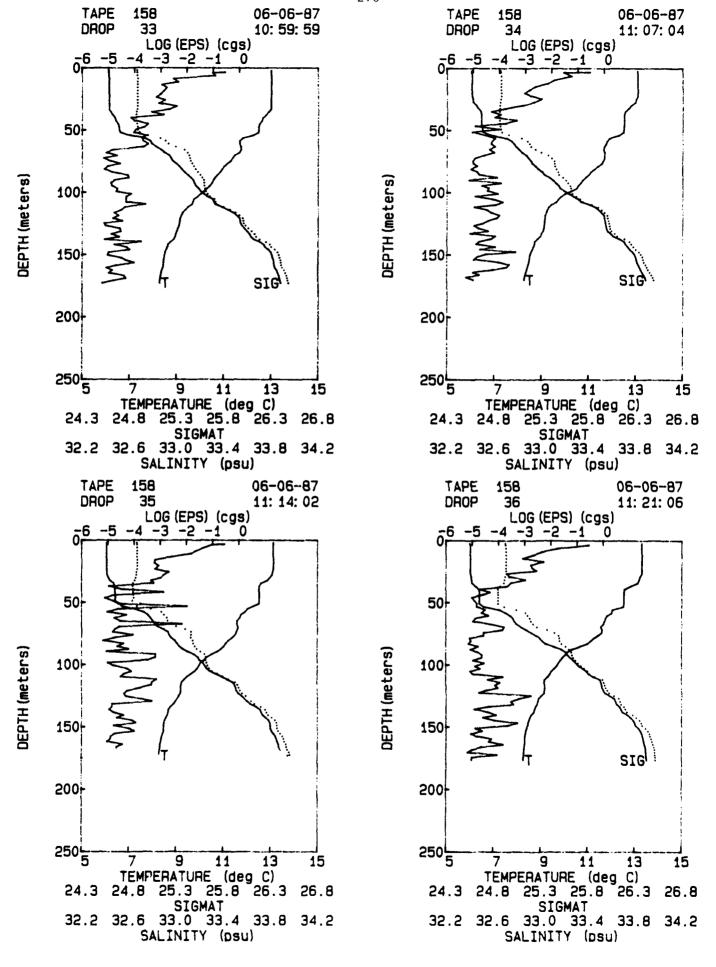




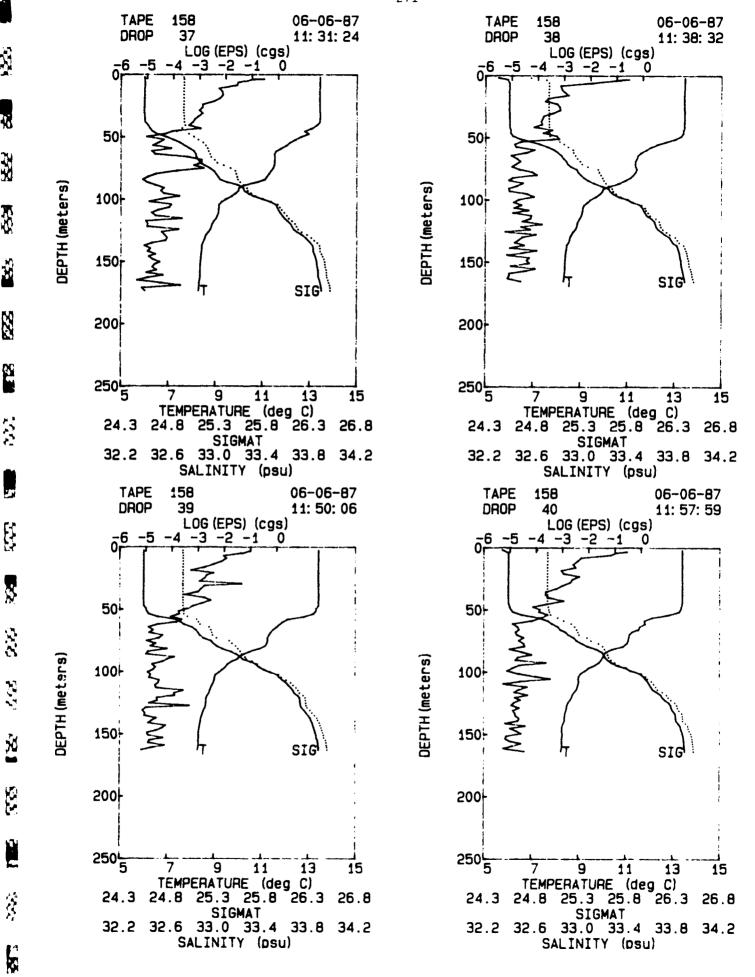


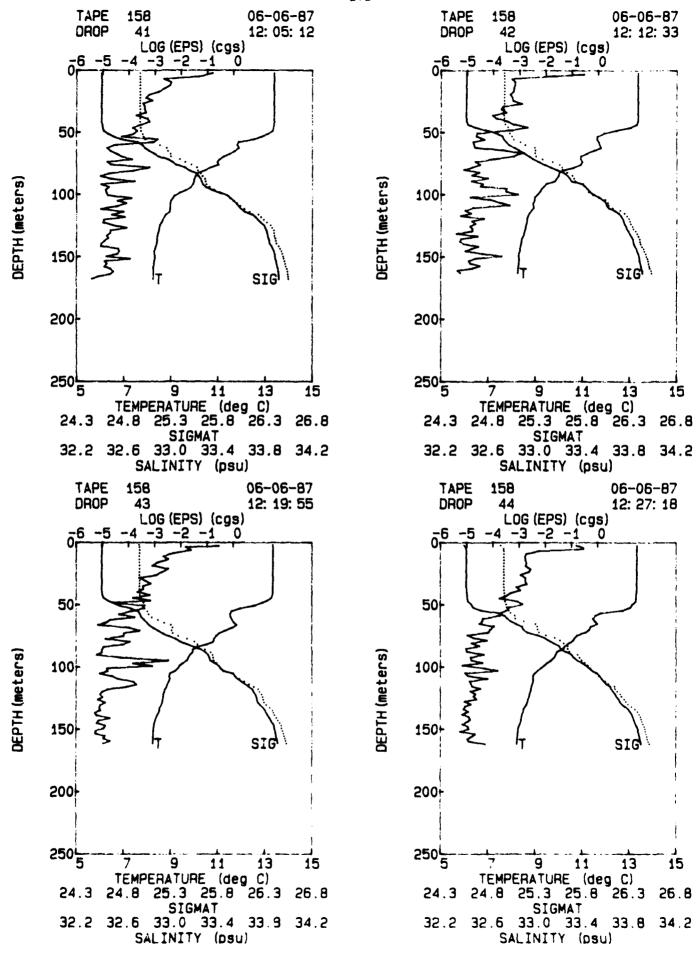




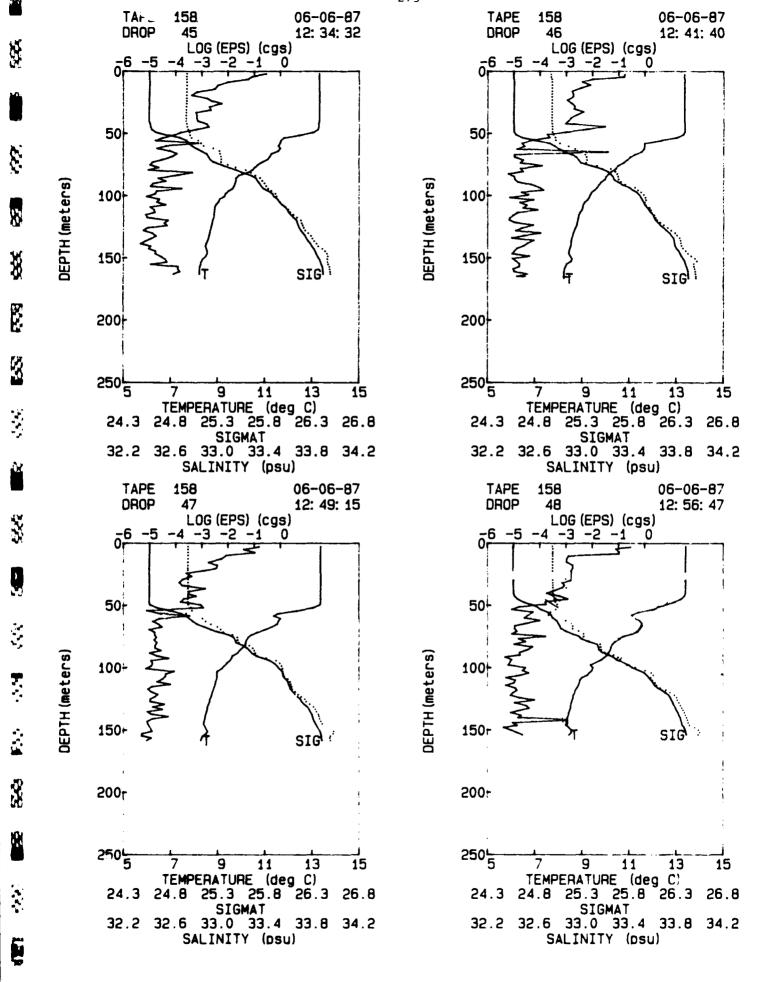


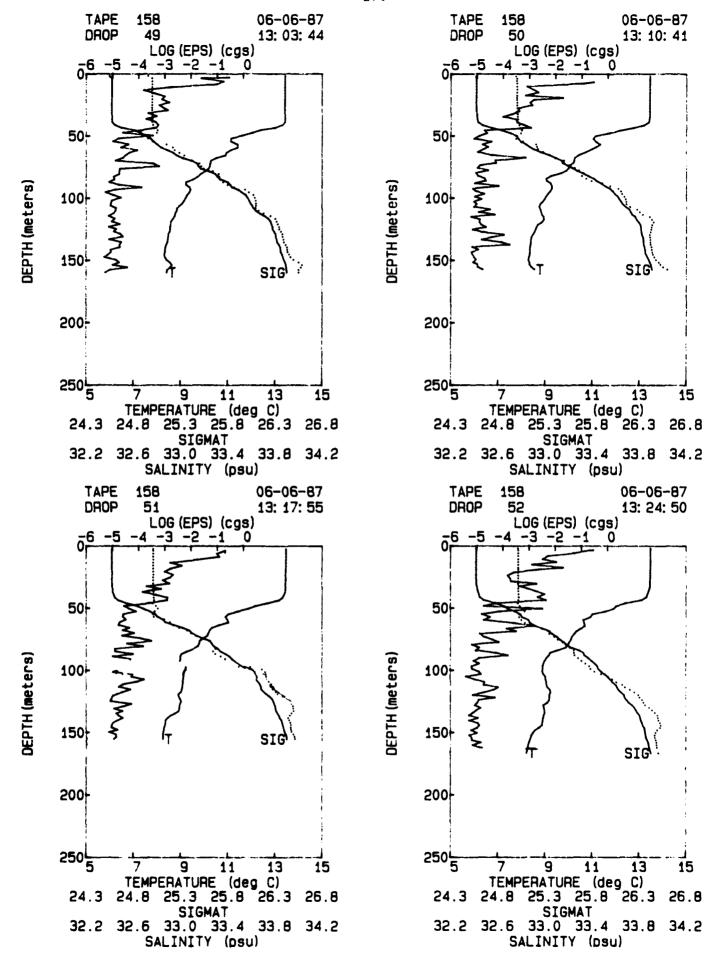
TANCOCCOURT PROGRAMME



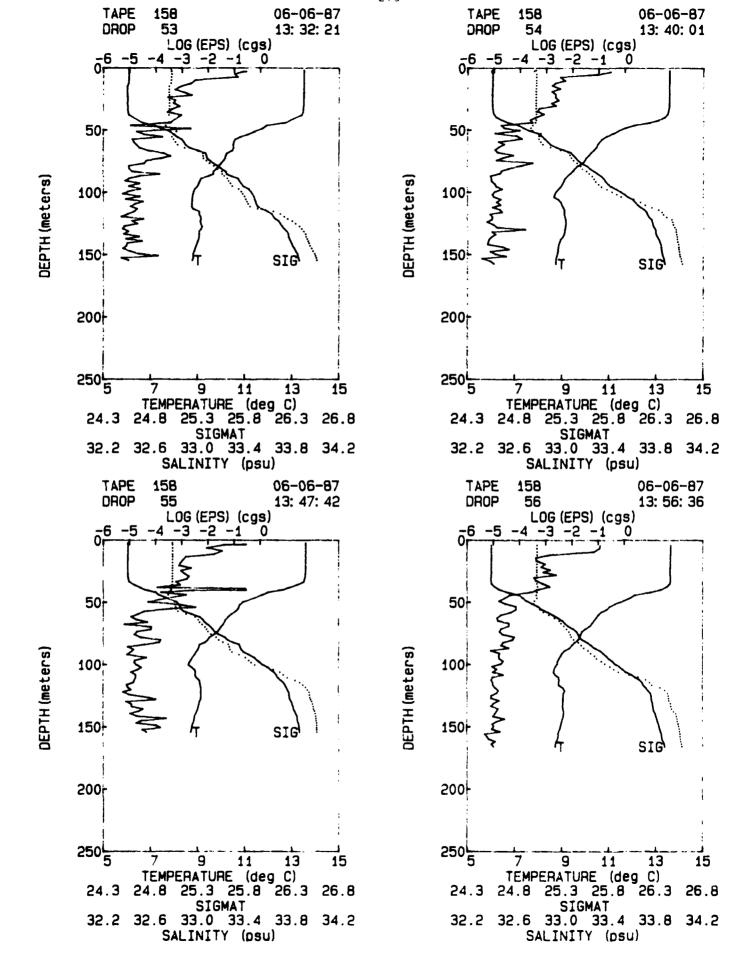


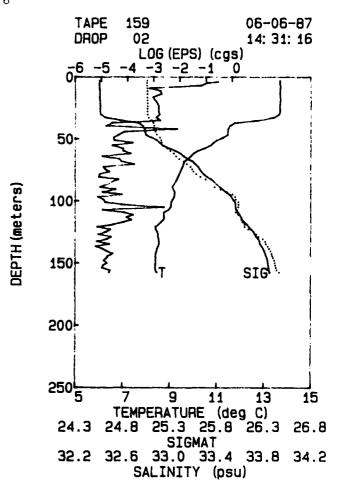
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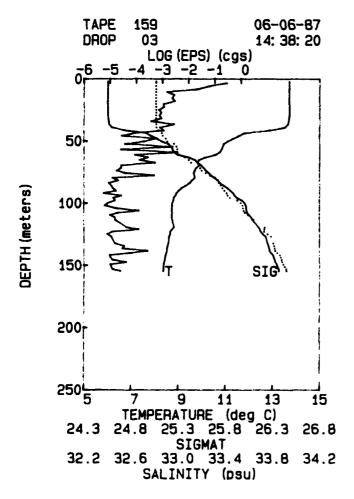












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DEPTH (meters)

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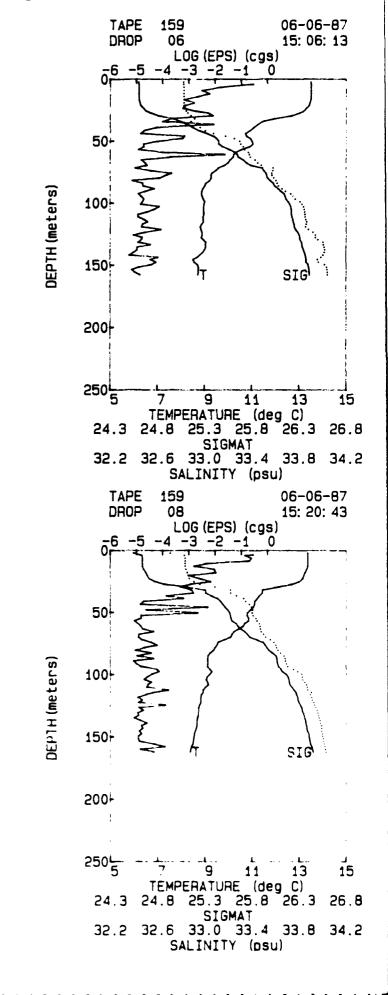
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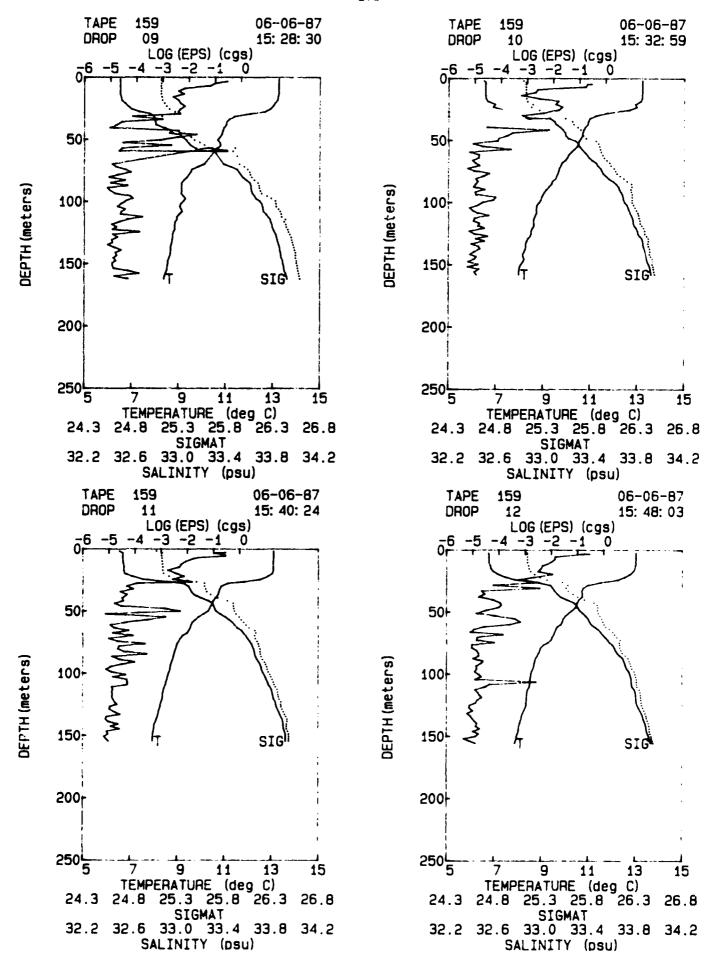
TEMPERATURE (deg C) 24.8 25.3 25.8 26.3

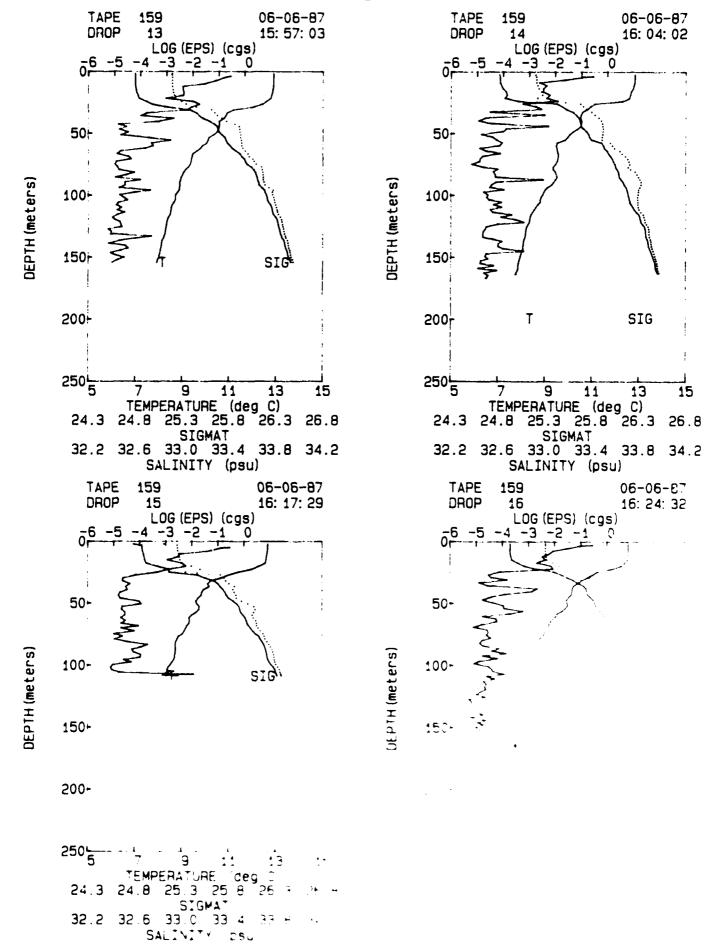
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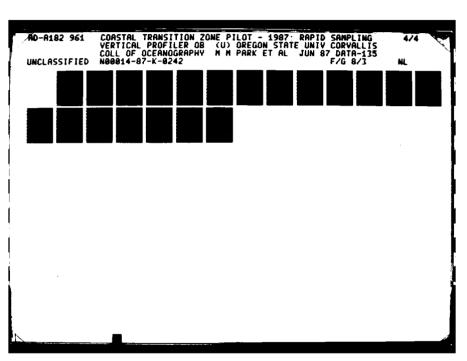
DEPTH (meters)

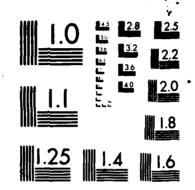






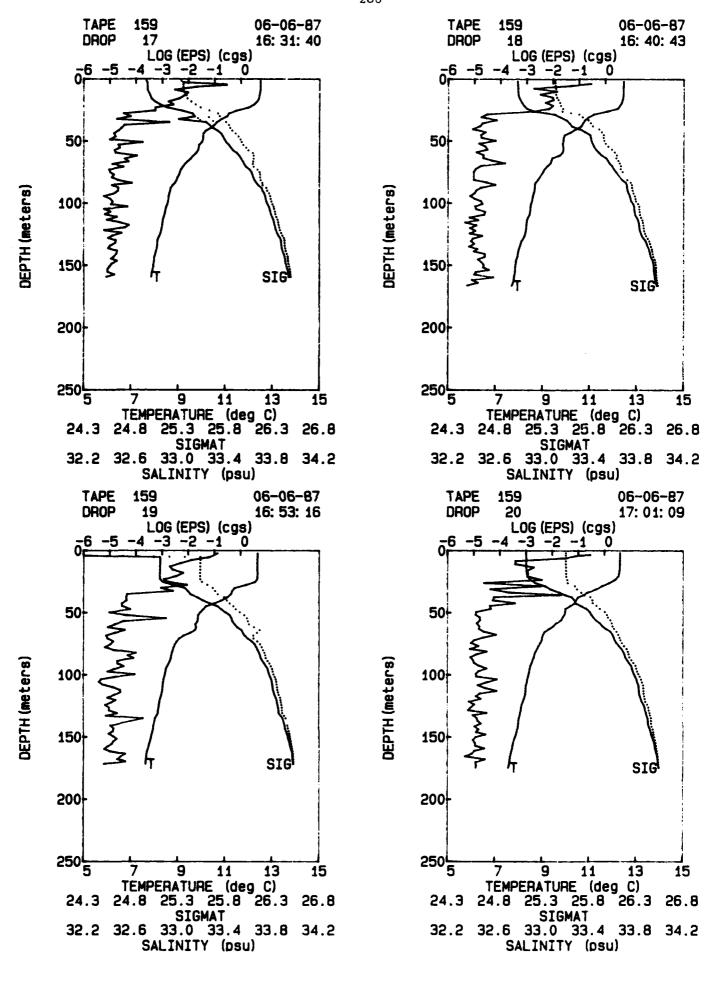
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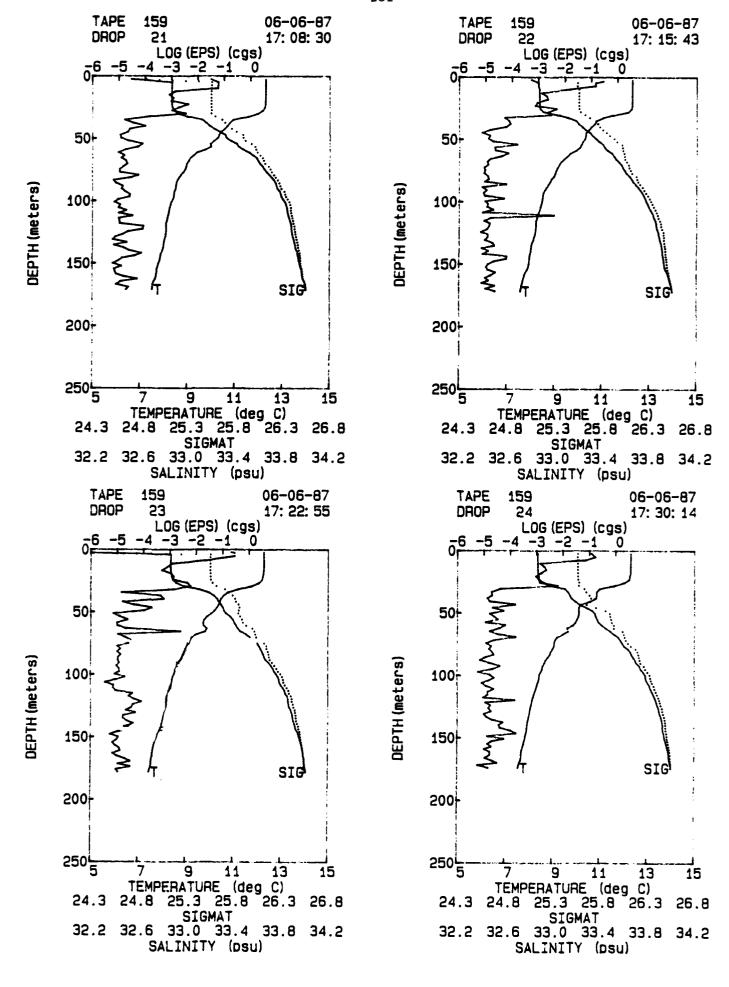
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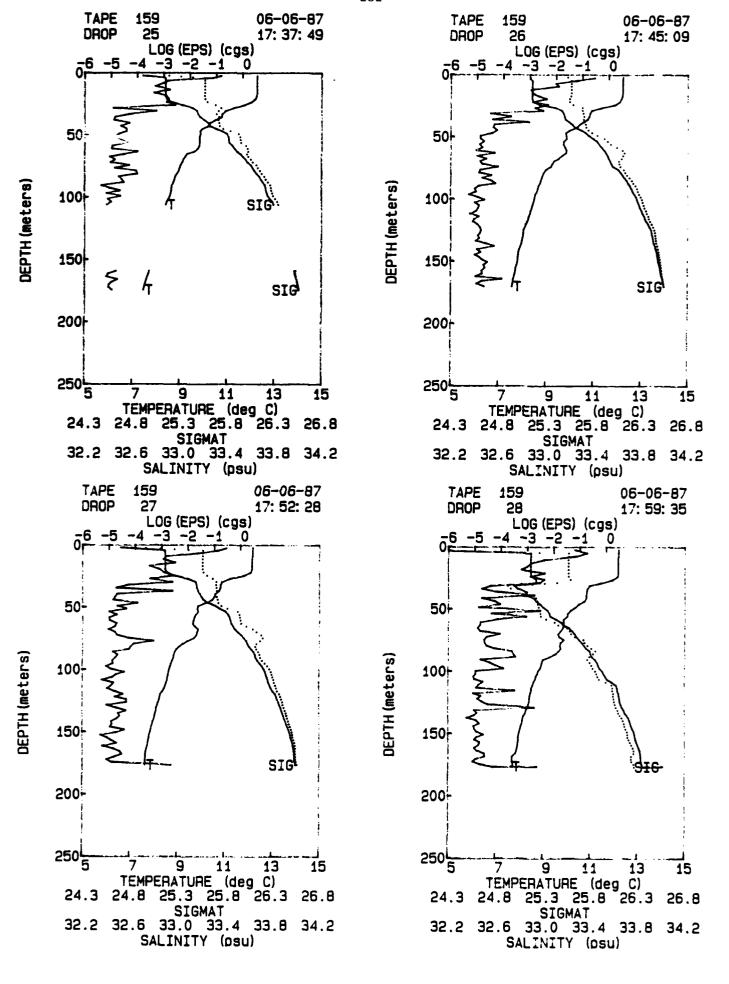
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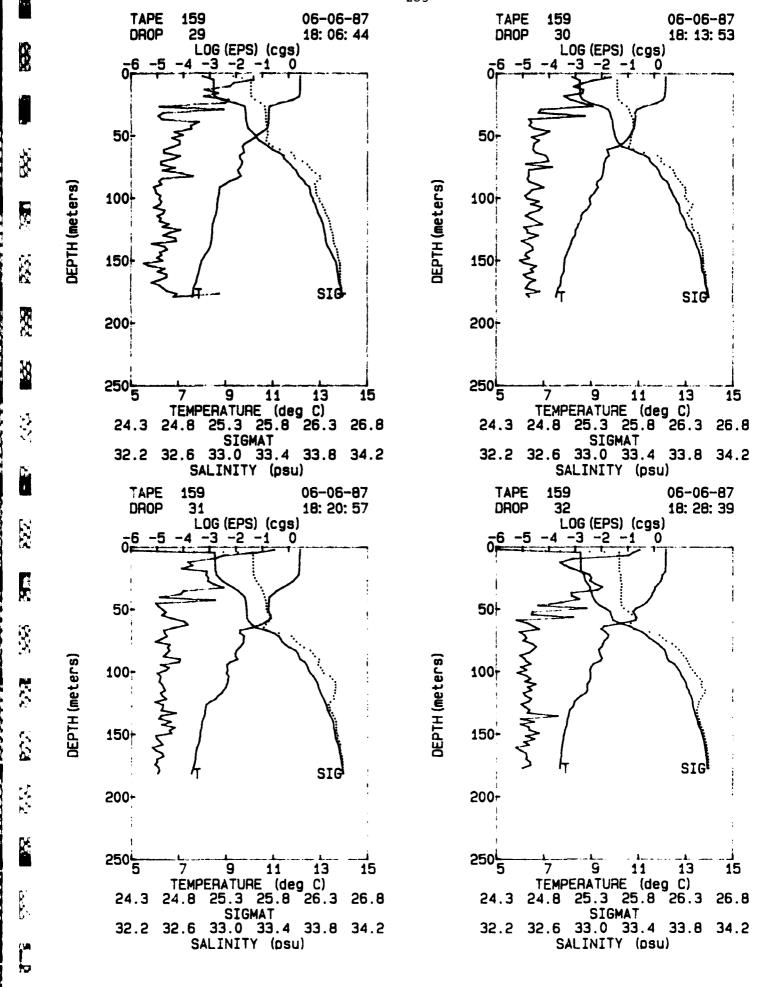
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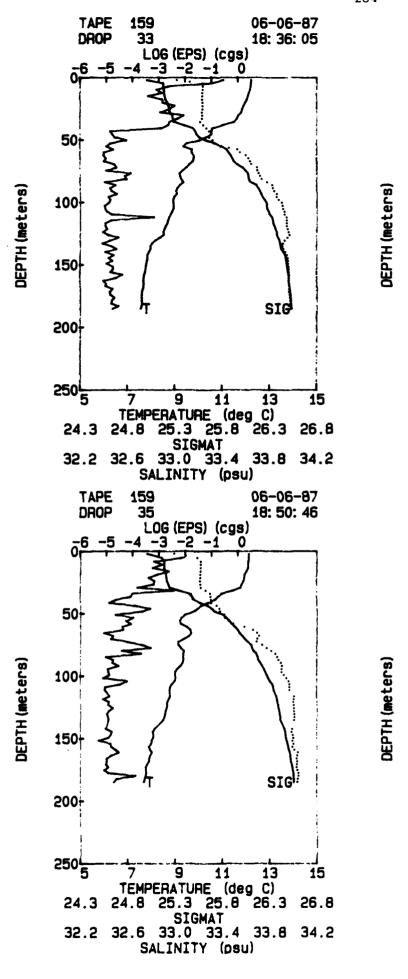
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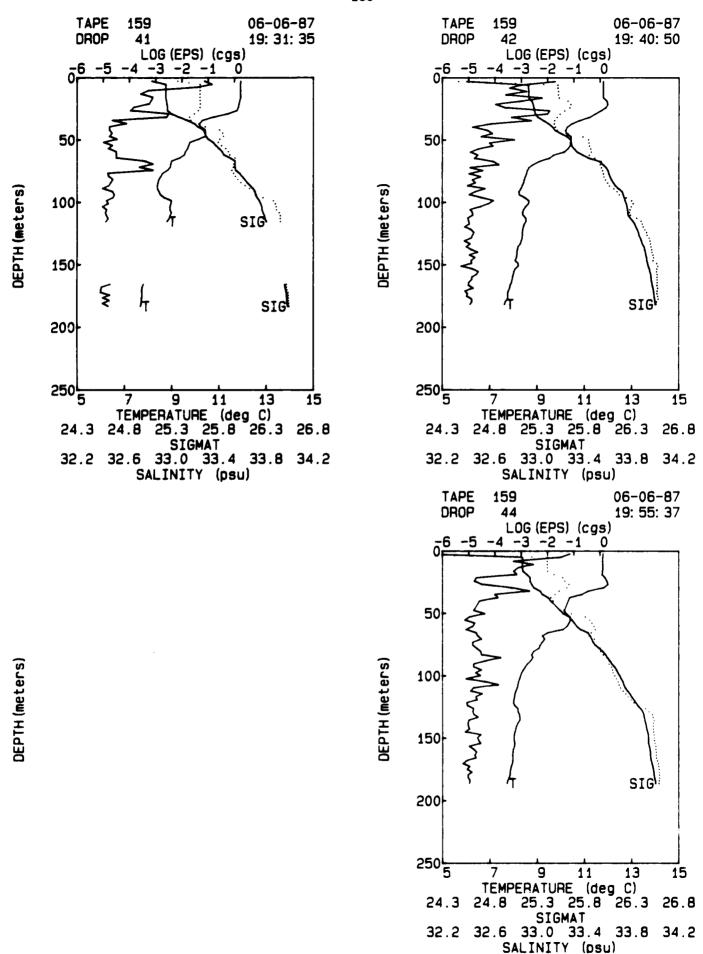


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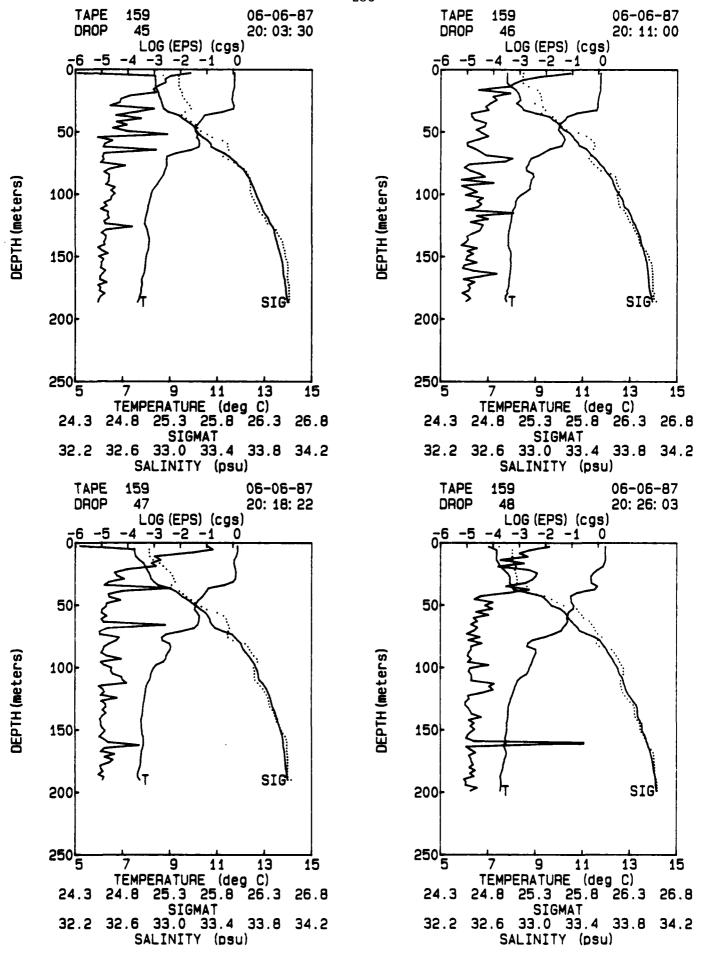


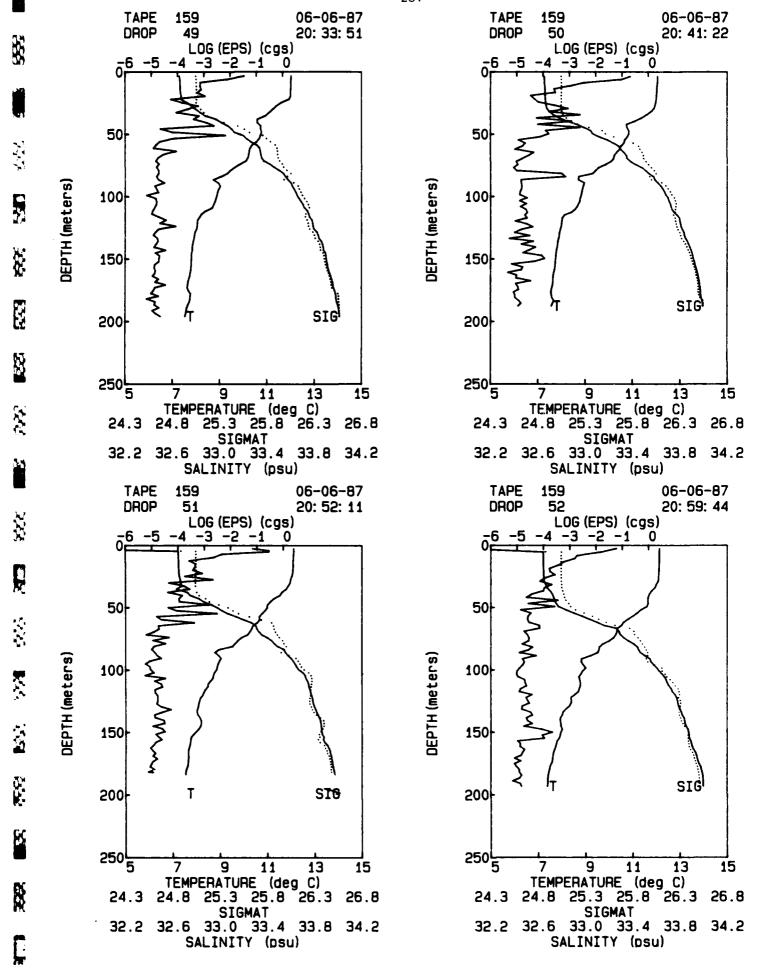


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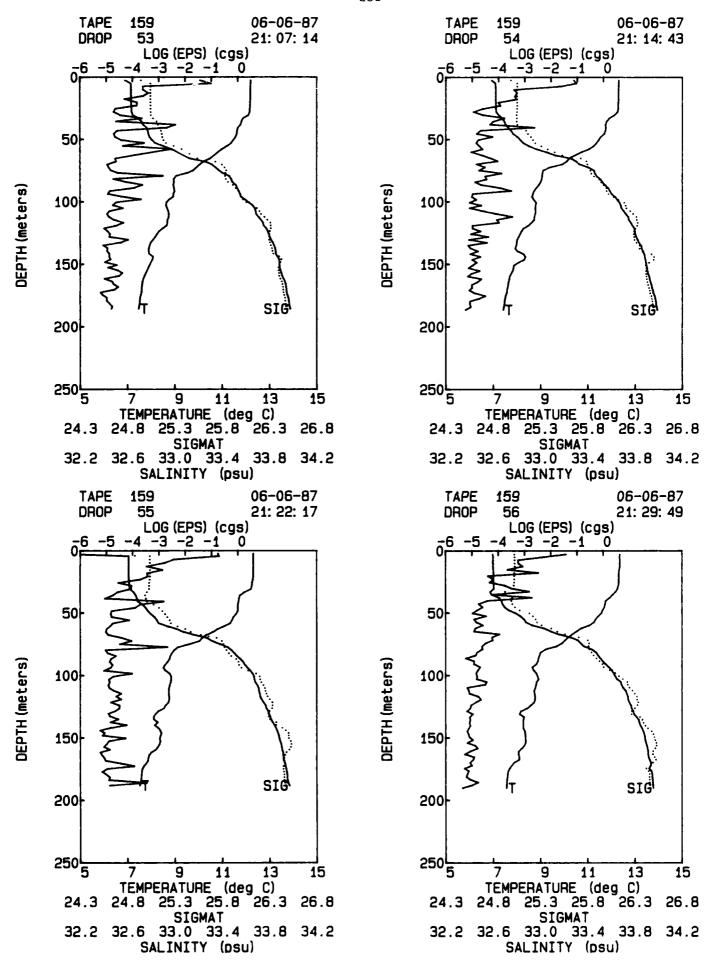
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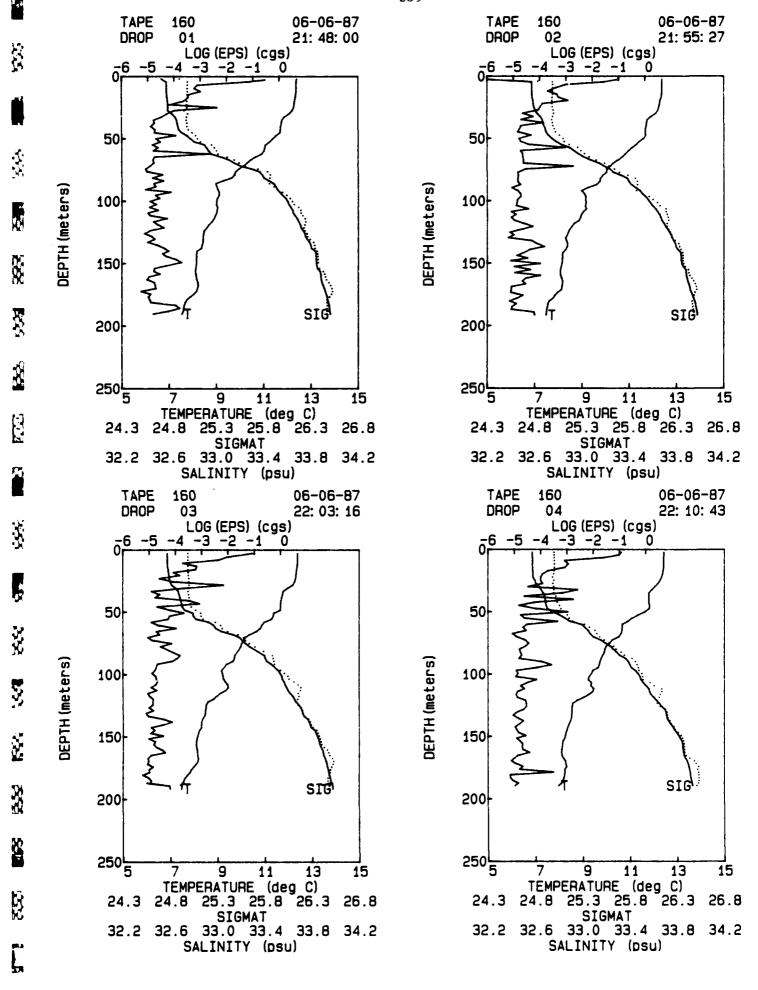


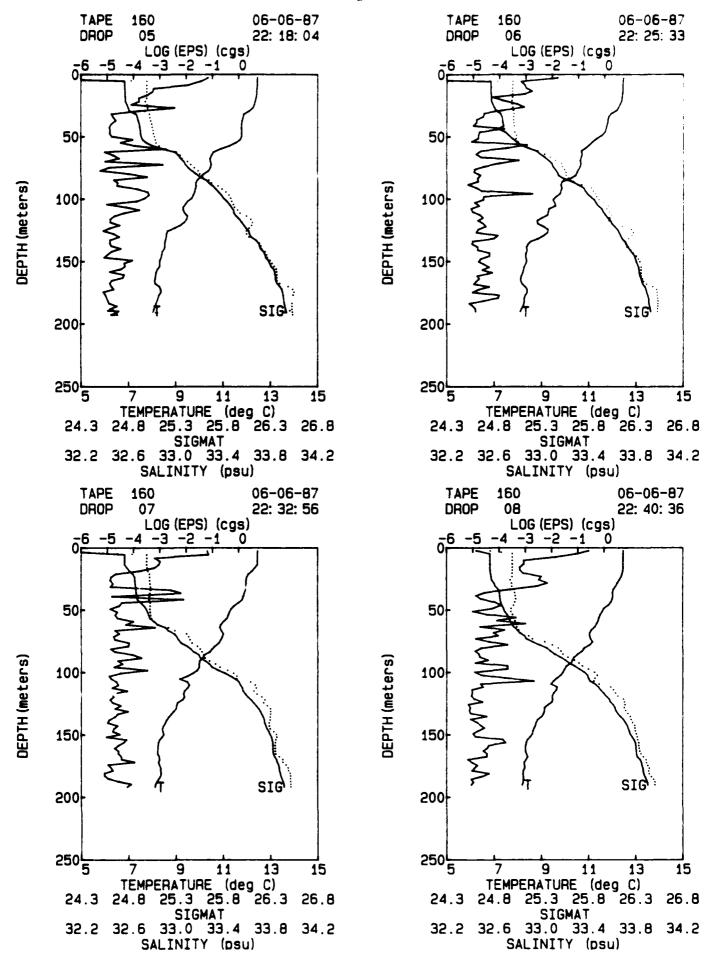


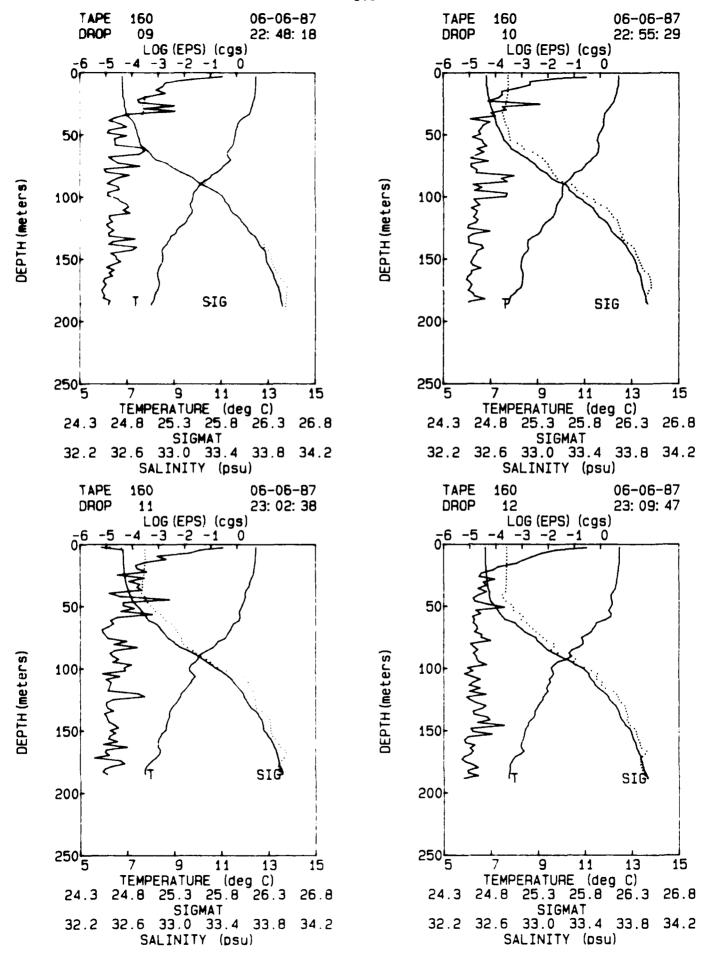
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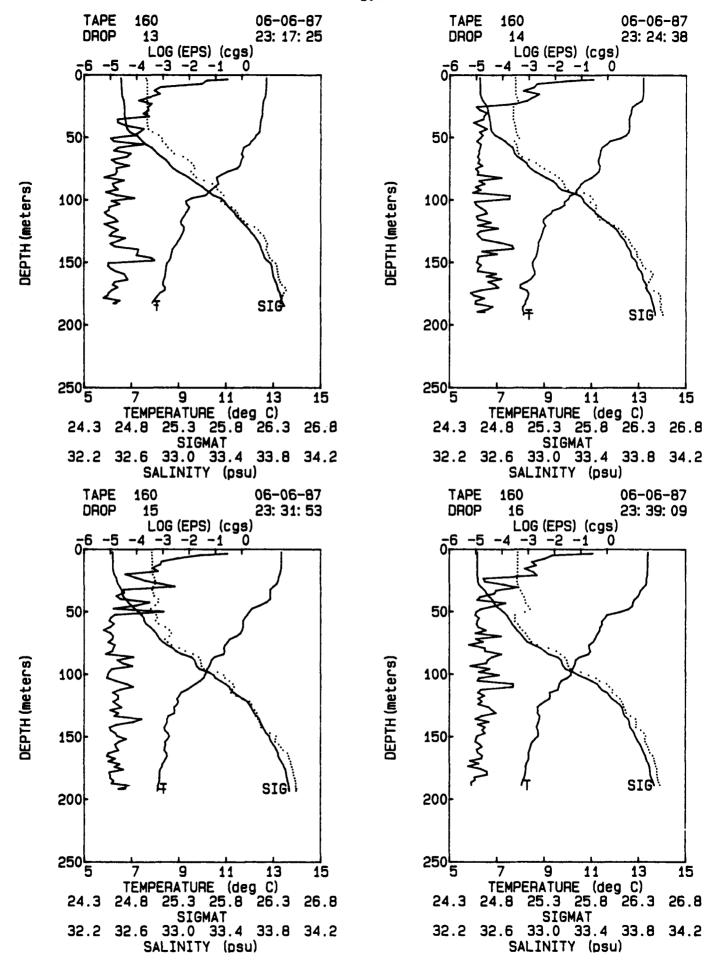
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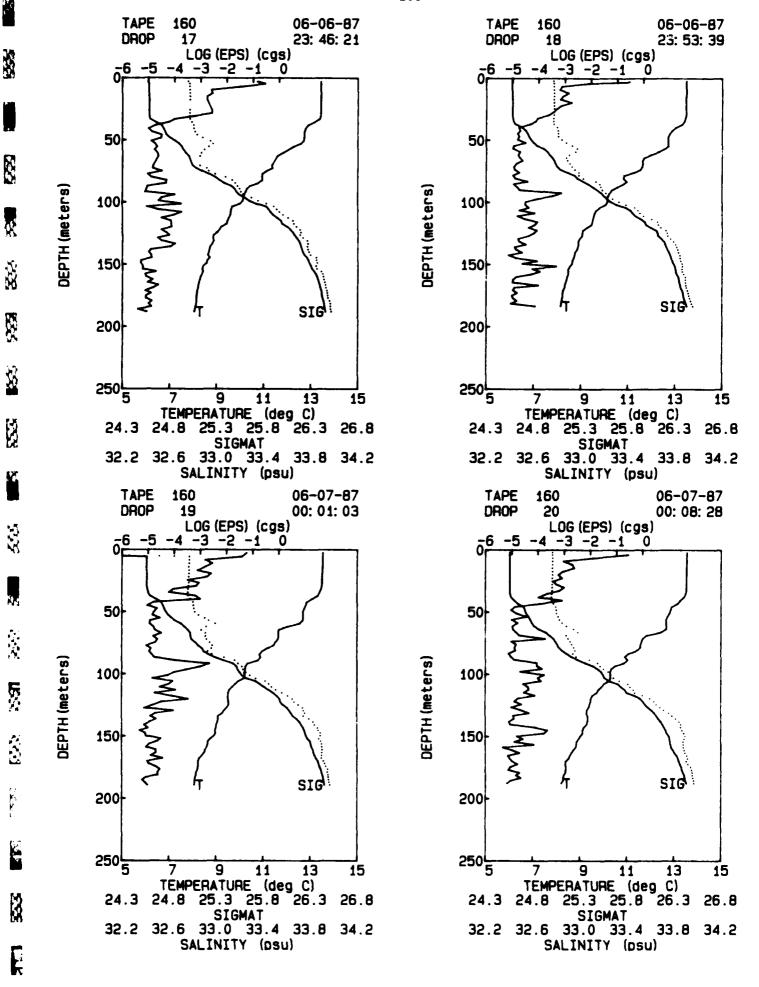




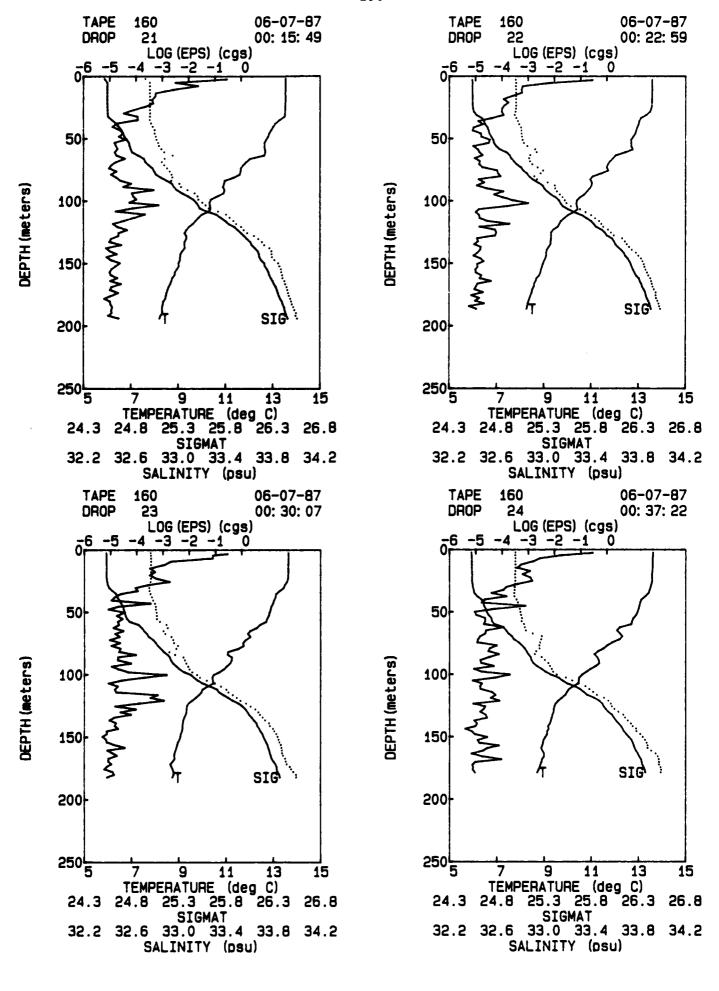




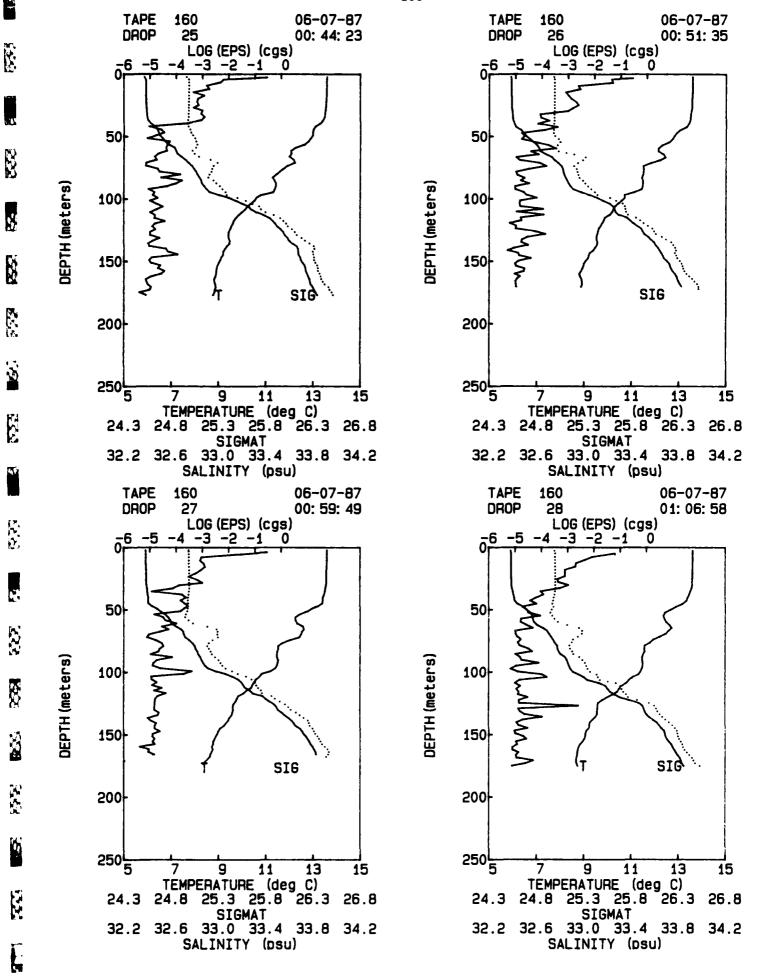


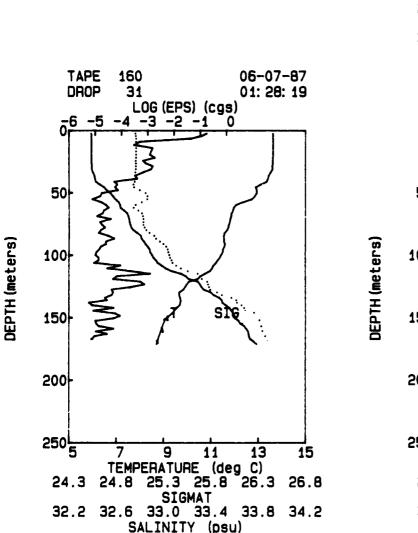


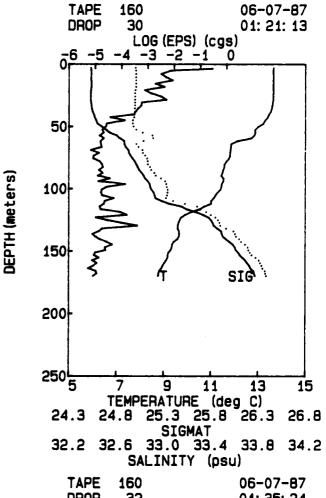
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